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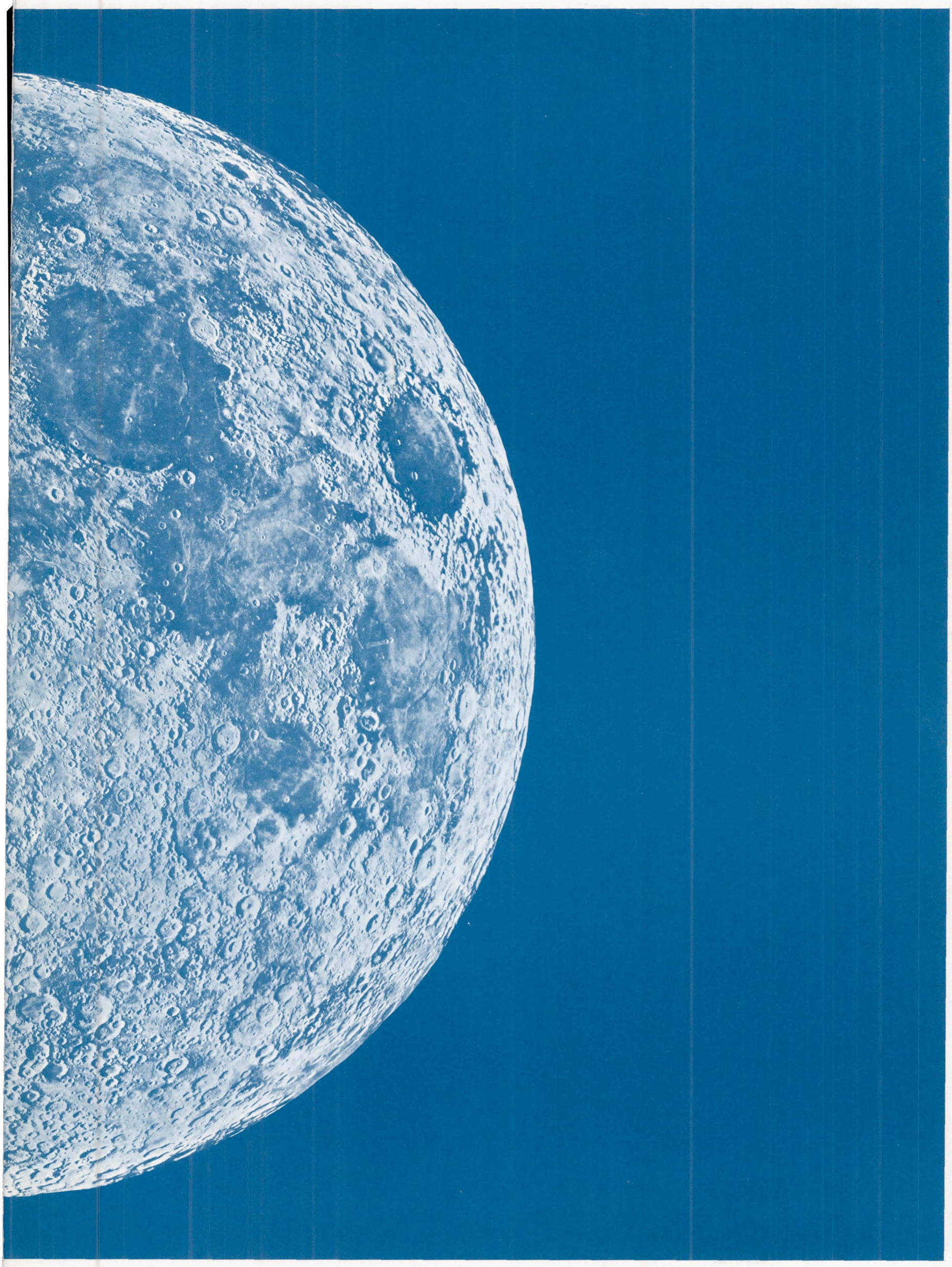
# LUNAR ORBITER PHOTOGRAPHIC ATLAS OF THE MOON

BOWKER and HUGHES

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION





NASA SP-206

# LUNAR ORBITER PHOTOGRAPHIC ATLAS OF THE MOON

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Langley Research Center

Hampton, Virginia

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# Foreword

In July of 1969 the United States landed two men on the Moon and safely returned them to Earth in response to the challenge set forth by President John F. Kennedy at the beginning of the decade. That response required the marshaling of hundreds of thousands of persons in an intensive effort to resolve a host of substantial problems, some of which required extension of the existing limits of human knowledge. Among the major problems was the determination of the nature of the lunar surface. Could it support a manned spacecraft, and what were the possibilities of finding sufficiently smooth sites for the landings? The early lunar exploration program of NASA, which was based on the use of unmanned spacecraft, was designed to provide answers to these questions and also to provide a wealth of scientific data.

The Lunar Orbiter program, designed to obtain detailed photographs of potential Apollo landing sites, was a significant part of this exploration program. The program was managed by the Langley Research Center, with The Boeing Co. as prime contractor and Radio Corp. of America and Eastman Kodak Co. as major subcontractors. Five spacecraft were placed in lunar orbit from 1966 to 1967, and photographs covering landing sites and specific areas of high scientific interest were sent back to Earth. The last flight completed the photographic survey of the entire surface. A selection of these photographs, covering all the lunar surface, both front and back, is collected in this Atlas and shows greater surface detail than has previously been available from any source. This store of information is presented as a base for planning future exploration of Earth's nearest neighbor and also to stimulate interest in further scientific study of the Moon.

The undersigned, who were program manager and spacecraft manager, respectively, of the Lunar Orbiter program, take this opportunity to acknowledge the outstanding contributions of the many individuals from companies, universities, and Government organizations who contributed to the success of the program; to them we dedicate this atlas.

Clifford H. Nelson
Israel Taback

Langley Research Center
*Hampton, Va.*

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# Introduction

During 1966 and 1967 the National Aeronautics and Space Administration launched five Lunar Orbiter spacecraft to obtain photographs from orbit of the surface of the Moon. The reconstructed photographs and support data are now on file at the National Space Science Data Center (NSSDC), Goddard Space Flight Center, Greenbelt, Md. The purpose of this Atlas is to present a selection of these photographs which provides essentially complete coverage of the near side and far side of the Moon in greater detail than any publication now in existence.

A summary of the five missions is given in table 1 (p. 19). The first three spacecraft essentially satisfied the primary objective to obtain high-resolution photographs of proposed Apollo landing sites. The fourth spacecraft systematically photographed the near side of the Moon and the fifth spacecraft completed the far-side coverage. The primary emphasis was not only to support the Apollo program but also to provide more detail in many areas that have been studied from Earth-based observations. At the average spacecraft altitude of about 3000 km for the photographs contained herein, the resolutions of the two cameras were approximately 500 meters and 65 meters; whereas under favorable conditions, Earth-based photography of the Moon can reveal details only as small as 500 to 1000 meters.

All the Lunar Orbiter photographs have been reprocessed from the original video data tapes. Special attention was given to the Atlas photographs to insure high quality and uniformity of appearance. They are presented here as 300-line-per-inch halftone reproductions (plates 1 to 675). The halftone negatives were prepared by the Army Topographic Command (TOPOCOM). The Lunar Orbiter photographs have been referenced to the lunar surface by a complete set of index maps which permit identification of those photographs showing a particular site or area. The Apollo zone photographs and the Atlas photographs have also been referenced separately by two additional sets of index maps. The index maps were prepared by the Aeronautical Chart and Information Center (ACIC). An alphabetical listing of prominent lunar features is given which will aid in the location of these features within the Atlas. A bibliography has also been included to refer the interested reader to additional information on the results of the program.

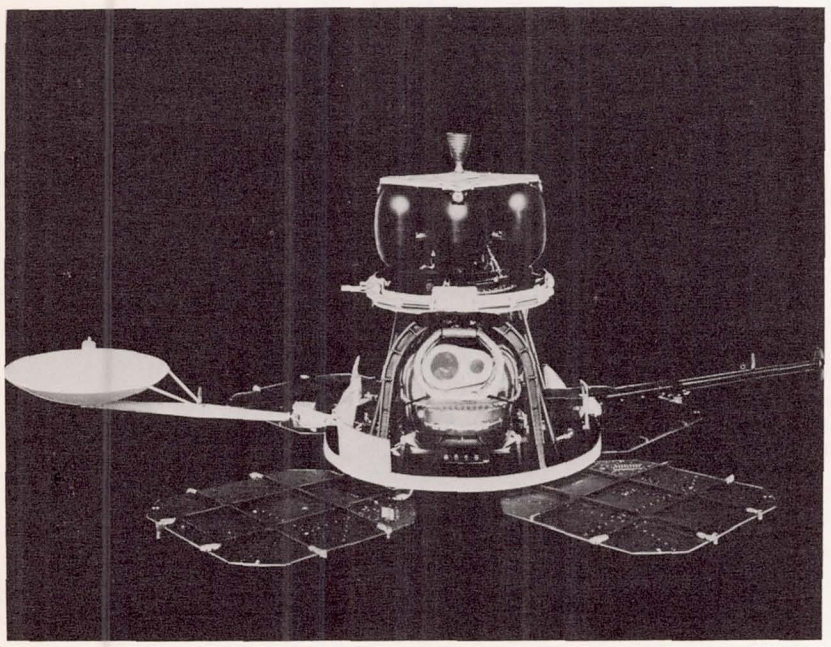


FIGURE 1.—*Lunar Orbiter spacecraft in flight configuration.*

## Lunar Orbiter Spacecraft

The Lunar Orbiter spacecraft is shown in flight configuration in figure 1. Detailed information regarding the spacecraft can be obtained from documents cited in the bibliography. Since the photography cannot be fully interpreted without an understanding of its origin, the photographic subsystem is herein discussed in detail.

### PHOTOGRAPHIC SUBSYSTEM

The primary elements of the photographic system (fig. 2) were a dual-lens camera, a film processor, and a readout system. The 80-mm focal-length lens provided an angular coverage of 44.4° by 38°. The 610-mm focal-length lens photographed a small area, centered within this field, with an angular coverage of 20.4° by

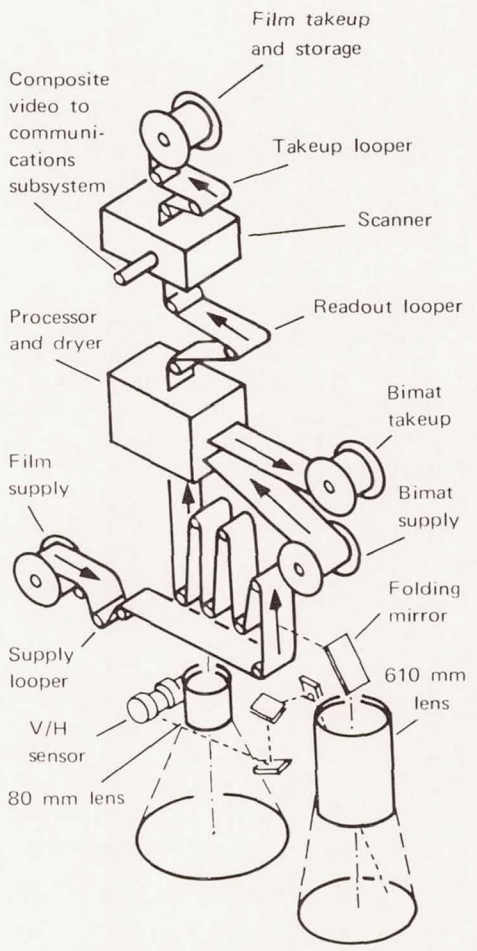



FIGURE 2.—*Photographic subsystem.*

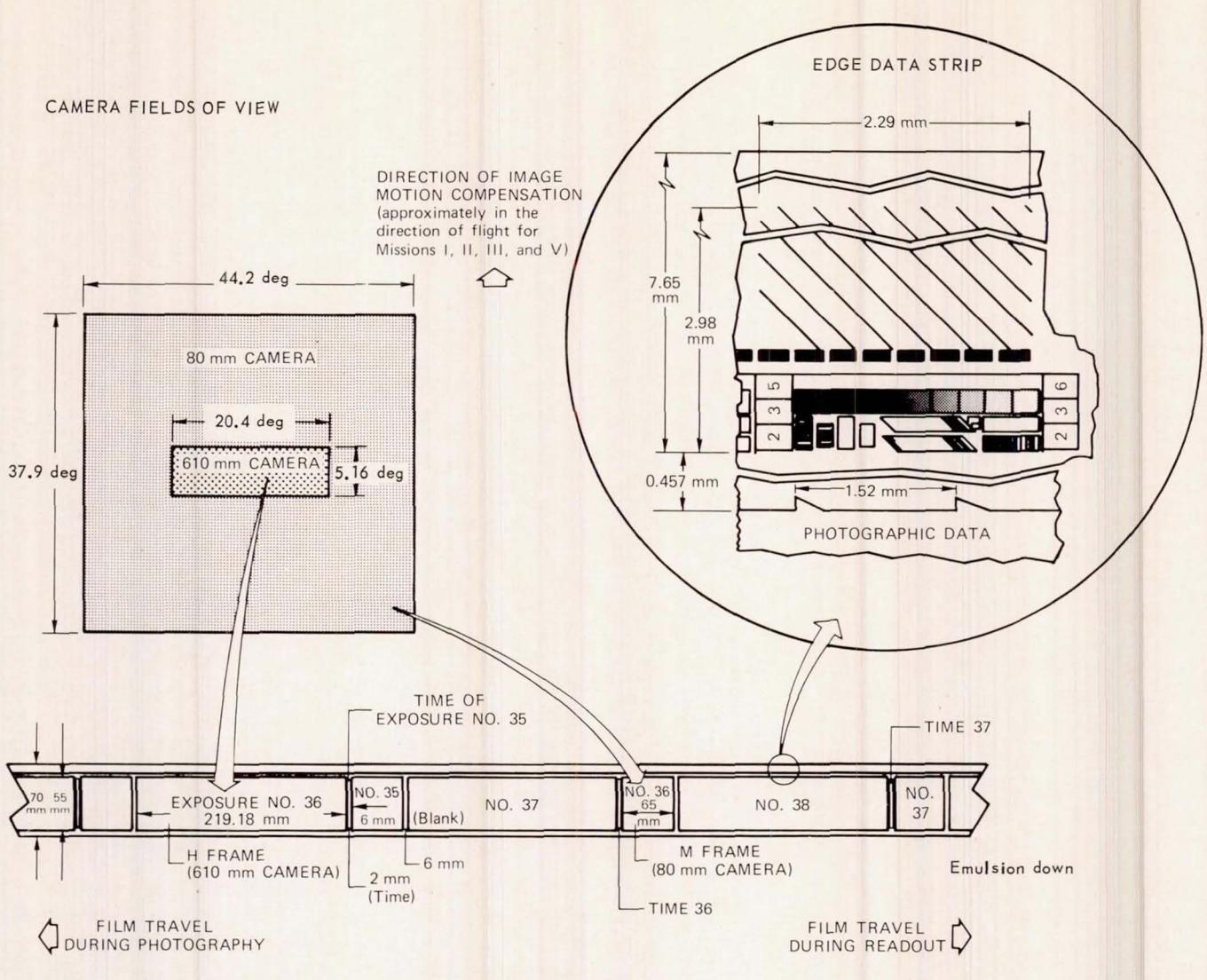



FIGURE 3.—*Spacecraft film format.*

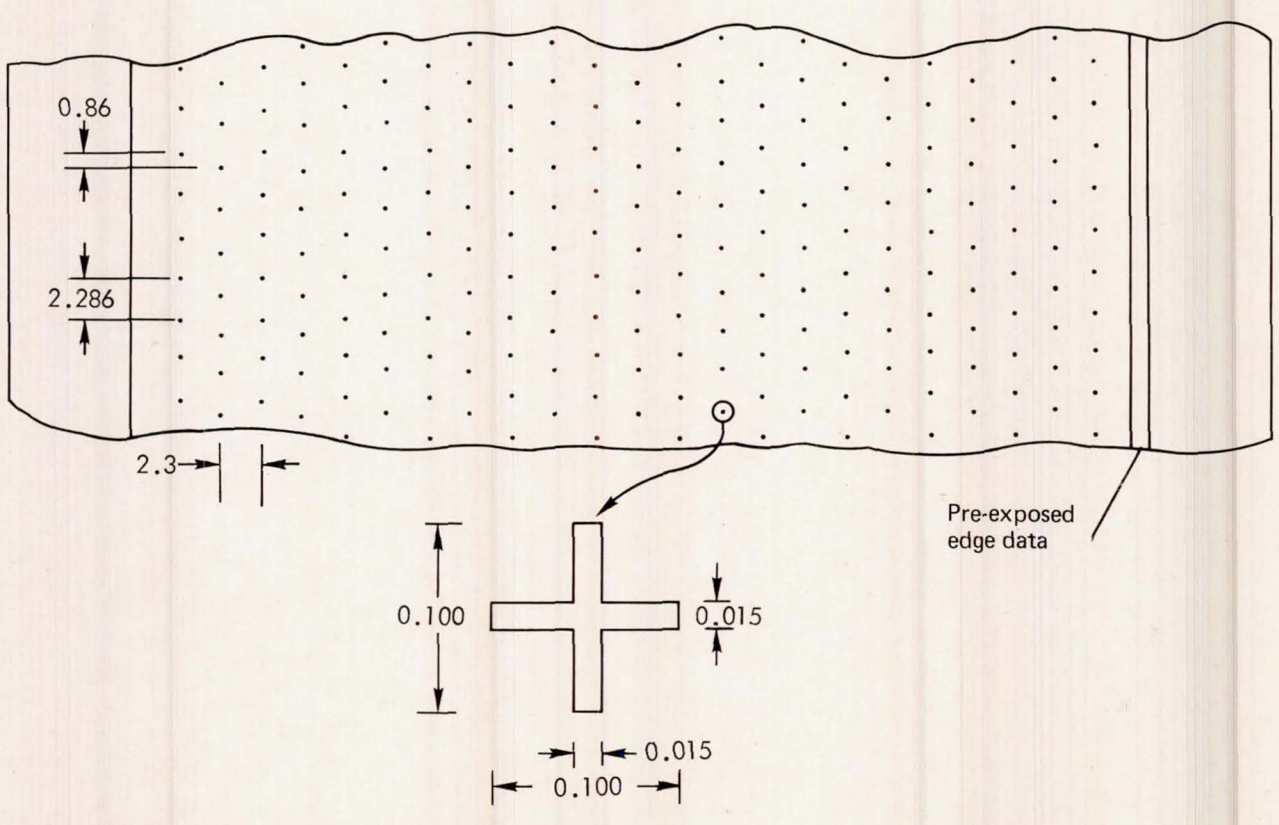



FIGURE 4.—*Preexposed geometric pattern for Lunar Orbiters III, IV, and V. Dimensions are in millimeters.*

5.16°. (See fig. 3.) To distinguish between the two exposures, those made with the 610-mm focal-length lens are referred to as high-resolution frames (or H frames) and those made with the 80-mm focal-length lens, medium-resolution frames (or M frames).

The photographs were interlaced on a single strip of Kodak high-definition aerial film, type SO–243, 70 mm wide and 80 meters long, as shown in figure 3. The SO–243 film was selected because it is relatively insensitive to radiation and, although its aerial exposure index of 1.6 is slow compared with that of other emulsions, it has an extremely fine grain structure. At a contrast ratio of 3 to 1, the angular line-pair resolutions of the recovered photographs were 34 and 4.4 seconds of arc, respectively, for the medium- and high-resolution cameras. Prior to use, the edges of the film were preexposed with framelet numbers, a 9-level gray scale, and resolving power charts. A geometric pattern (fig. 4) was preexposed on the spacecraft film of Lunar Orbiters II to V at the same time as the edge data. This pattern aided in the detection of and compensation for distortion introduced by the processing, readout, and ground reproduction systems. The folding mirror in the optical path of the 610-mm focal-length lens caused reversal of the high-resolution images with respect to the medium-resolution images. This condition resulted in the edge data being turned over when the film was printed in reverse to give properly oriented pictures.

Essentially, both lenses opened simultaneously at a fixed aperture of $f/5.6$. Timing lights which encoded the exposure time were recorded on the film. A between-the-lens shutter was used with the 80-mm focal-length lens; a double-curtain focal-plane shutter, with the 610-mm focal-length lens. Shutter speeds of 0.04, 0.02, and 0.01 second were selectable by transmitted commands. Photographs could be taken as single exposures or in 4-, 8-, or 16-exposure sequences, both the sequence and the time between successive exposures being selectable. Multiple-frame sequences gave an overlap in the direction of flight.

The film was held in the focal plane by film clamps and vacuum which held it flat against the platens during exposure. The platens moved the film during exposure to eliminate image smear caused by the rapid movement of the spacecraft over the lunar surface at low altitudes. The platen velocity, which provided the image motion compensation (IMC), was regulated by a mechanical linkage to an image-motion-sensing device, the velocity-height (V/H) sensor. The V/H sensor optically locked on to the image of the lunar surface through the high-resolution lens and caused the platens of each camera to move at the velocity of its image.

In a normal photographic sequence, the spacecraft was oriented to the correct attitude, the lenses were uncovered by the opening of a thermal door on the spacecraft, the V/H sensor was activated, and the camera was turned on. After the "camera-on" command, the cameras operated in an automatic sequence to: (1) clamp the film to the platen and draw it flat by differential pressure, (2) start moving the platens in synchronization with the image motion, (3) open the shutters for simultaneous exposures, (4) return the platens to the rest position, and (5) advance the film for the next exposure. This sequence was repeated until all photographs commanded were taken.

After exposure, the film was held in the camera storage looper. The storage looper (fig. 2) consisted of a series of fixed rollers in a stationary carriage and a series of rollers in a movable carriage which rode on a track. As film entered the looper, a spring caused the movable carriage to move away from the fixed carriage; thus, a storage capacity for up to 6 meters (≈20 ft) of film was provided.

Upon completion of a photographic sequence, a processor dryer, on command, processed film from the storage looper at a rate of 6.09 cm (2.4 in.) per minute. Processing was accomplished by pressing the film into contact with Kodak dry Bimat transfer film, type SO–111. Kodak Bimat film consists of a normal film base coated with a gelatin layer presoaked with a special mono-bath processing solution. The solution both developed and fixed the photographic image during the 3.4 minutes the exposed film and Bimat film were in contact on the processing drum. Processing temperature was closely controlled at 29.5° C.

The exposed film and Bimat film were then separated, the Bimat film going to a takeup spool and the developed film to a dryer drum. The film was in contact with the dryer drum for 11.5 minutes at a temperature of 35° C. Moisture driven from the film by the heat of the dryer drum was absorbed by special chemical salts in pads around the dryer; thus a controlled humidity environment was maintained in the photographic subsystem. After leaving the dryer, the film was transported through the readout storage looper and readout mechanism and stored on a takeup spool. The film was then ready for readout.

At the completion of all photography, the procedure was to cut the Bimat film and read out all the photographs by running the film in reverse and taking it up on the film supply reel. Because of limitations on the number of frames that could be scanned per orbit, this procedure required about 2 weeks. However, throughout the mission the readout storage looper provided the capability of reading the last four exposed frames for priority return of important data and for monitoring system performance.

The readout section (fig. 5) consisted of a line scan tube, a photomultiplier tube, and the associated optics and electronics. In the line scan tube, a spot of light, 112 microns in diameter, generated by the electron beam moved linearly across the face of a revolving phosphor drum. Rotation of the drum avoided local overheating of the phosphor, but it did not affect the orientation of the line. The spot was focused by the scanner lens and projected as a reduced image, 6.5 microns in diameter, onto the film where it moved 2.67 mm horizontally in one direction (the return trace was blanked out). The scanner lens moved continuously at right angles to the film edge. The result was a complete scan of a "framelet" consisting of 16 359 parallel scan lines, each 2.67 mm long, across 57 mm of the 70-mm film. At the completion of a framelet, the film was advanced 2.54 mm to allow for an overlap before making the next scan in the reverse direction across the film. A complete dual-exposure frame, 298 mm long, required 117 framelets.

The light passing through the film, modulated by image density, was sensed by a photomultiplier tube through the associated light-collector optics. An electrical signal proportional to the intensity of the transmitted light was generated, amplified, and transmitted to the ground receiving station. The received video signal was sent to the ground reconstruction electronics (GRE) where it was converted to a line scan on a kinescope tube. The variations in light intensity on this kinescope tube corresponded to the variations in image density on the spacecraft film.

The line on the kinescope tube was recorded on moving 35-mm Kodak television recording film, type SO–349. The image on the

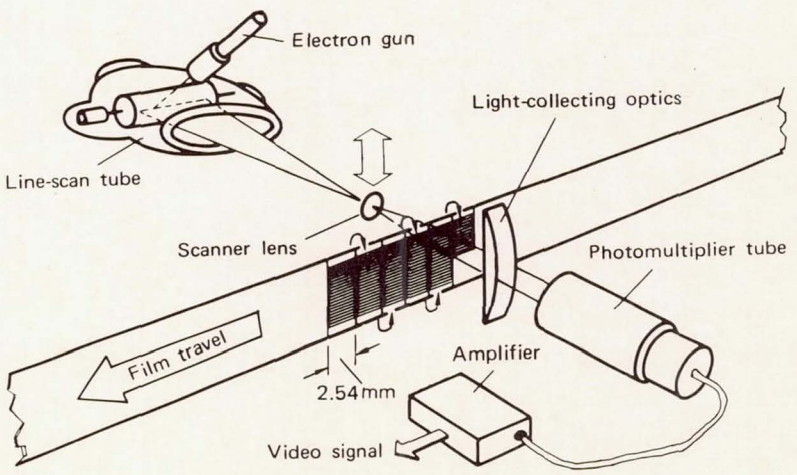



FIGURE 5.—*Readout scanner.*

35-mm film was 7.2 times the size of the image on the spacecraft film. After processing, this positive image film was run through a film cutter to remove excess film and the individual framelets were separated. The framelets were then laid side by side on stable-base polyester film to reconstruct the original photograph. Master negatives were made from these positives.

A full medium-resolution photograph was reconstructed from approximately 27 framelets and measured 47 cm by 40 cm. The high-resolution photograph consisted of approximately 86 framelets and measured 158 cm by 40 cm. Because this size was unwieldy, the practice was to assemble high-resolution frames into three sections. Photographic reassembly is illustrated in figure 6.

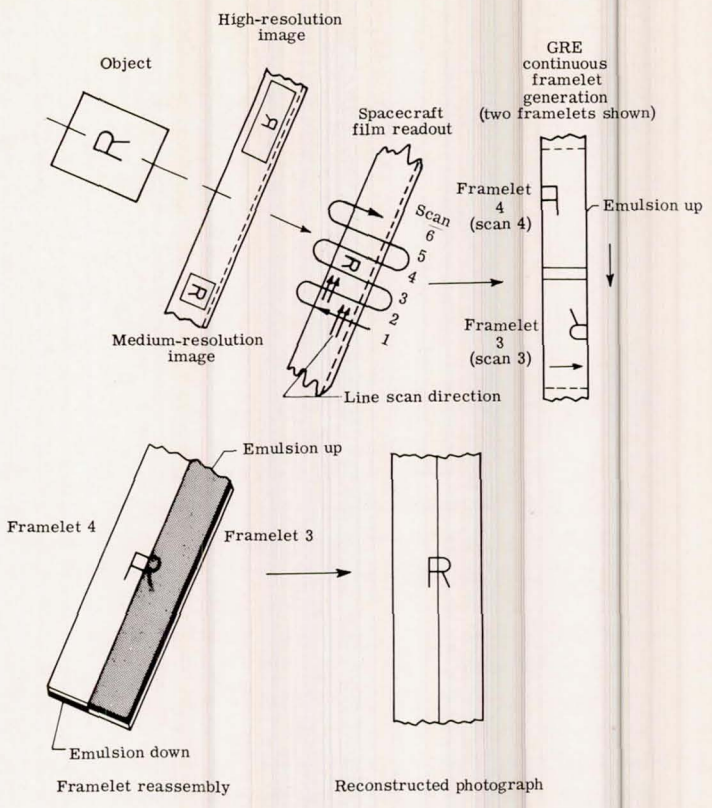



FIGURE 6.—*Photographic reconstructure procedure. Not to scale.*

## IMPERFECTIONS

Certain imperfections may be observed in some of the photographs. These imperfections are directly traceable to the method of film development, the readout system, the video data, or the GRE system.

Most photographs are not perfectly rectangular. This distortion was caused by a misalinement of the line-scan tube with respect to the mechanical scan direction. When the projected line was not perpendicular to the scan direction during readout, and the kinescope trace in the GRE system was perpendicular to the edge of the 35-mm film, then a noticeable tilt could be observed when successive framelets were laid side by side to reconstruct a complete frame.

Many framelets appear to have light and dark stripes running parallel to their edges. This effect was due primarily to an inherent nonuniformity in the light output of the scan system in the spacecraft that caused a variation in light intensity and affected the video signal level during a scan across the width of a framelet. Ideally, the level should be constant for a constant film density.

In some photographs small-scale streaks appear as bright white lines (see plate 297) parallel to the framelet edge. This condition was caused by phosphor granularity in the GRE kinescope tube.

The Bimat technique introduced several development imperfections that are scattered throughout many of the frames. Bimat stop lines (shown in plate 75) and Bimat pull-off lines (shown in plate 144) result from anomalous development conditions which occurred at the entrance to and exit from the development system. Two oval-shaped spots (shown in plate 92) appear near the center of the film and are associated with the location of the Bimat stop line; they follow it by about 10.7 cm (4.2 in.). "Lace" (shown in plate 116) appears as a spotted area of unprocessed film arranged in a random manner. The areas vary in size and location on the film and do not follow any pattern. Because of overlapping photography, the amount of data lost by these processing defects is small; their main effect is the spoiling of the appearance of the photographs.

Various other minor imperfections are scattered throughout the photographs. Occasionally, momentary dropout of the video modulation on the transmitted carrier caused extremely fine white lines to appear in the framelets (shown in plate 573). In plate 2 there appears to be an area of double exposure. This condition was caused by a failure of the film to advance completely after a photograph was taken; as a result, a medium-resolution image overlaps a high-resolution image. A few photographs (such as plate 344) have a blurred or out-of-focus appearance that was a result of water vapor condensing on the camera window. Once the problem was recognized, it was eliminated by closer control of the window temperature.

## ENHANCEMENT

Although the electronic nature of the photographic system introduced undesirable defects in the photographs, it also allowed for flexibility during reconstruction. An important example was adjusting for overexposure often evident in the bright areas of the medium-resolution photographs. By amplifying the video signal during reconstruction, photographic detail, lost by normal processing, was retrieved.

In addition to the electronic enhancement techniques often employed during reconstruction, photographic dodging techniques were used (in the production of the negatives) to compensate for large density variations within the photographs. The enhancement process, although it increases the information content of the photographs, distorts the photometric fidelity. It is therefore not advisable to draw conclusions based on a comparison of photographic density.

# Lunar Orbiter Photographs

A listing of the support data required to analyze the Atlas photographs is contained in table 2. Additional information may be found in the references cited in the bibliography. The positional data are subject to possible future revision. The terms presented in the support data are defined in this section (in the order given in the table). Figure 7 illustrates the geometry of these parameters.

Although the primary purpose of this Atlas is to present a complete photographic coverage of the near and far sides of the Moon, an index of all Lunar Orbiter photographs has been included. Figures 8 and 9 (p. 8–13) include mercator and polar projections which display the lunar-surface outlines of photographs from the five missions. The concentration of photography in the Apollo landing zones required the front-side equatorial region to be displayed in greater detail to avoid confusion. Any photograph in this Atlas can be located by means of these maps, and the maps also show whether additional photographs are available for any specific area of interest.

An index of the photographs presented in this Atlas is given in figure 10. (A few Mission I and Mission IV photographs are not given, either because the photography is oblique, only part of the frame is available, or they are redundant; they are I–35, I–37, I–39, I–102, I–117, IV–39, IV–45, IV–46, IV–51, IV–54, IV–55, IV–56, IV–61, IV–99, IV–123, IV–178, IV–184, and IV–192.)

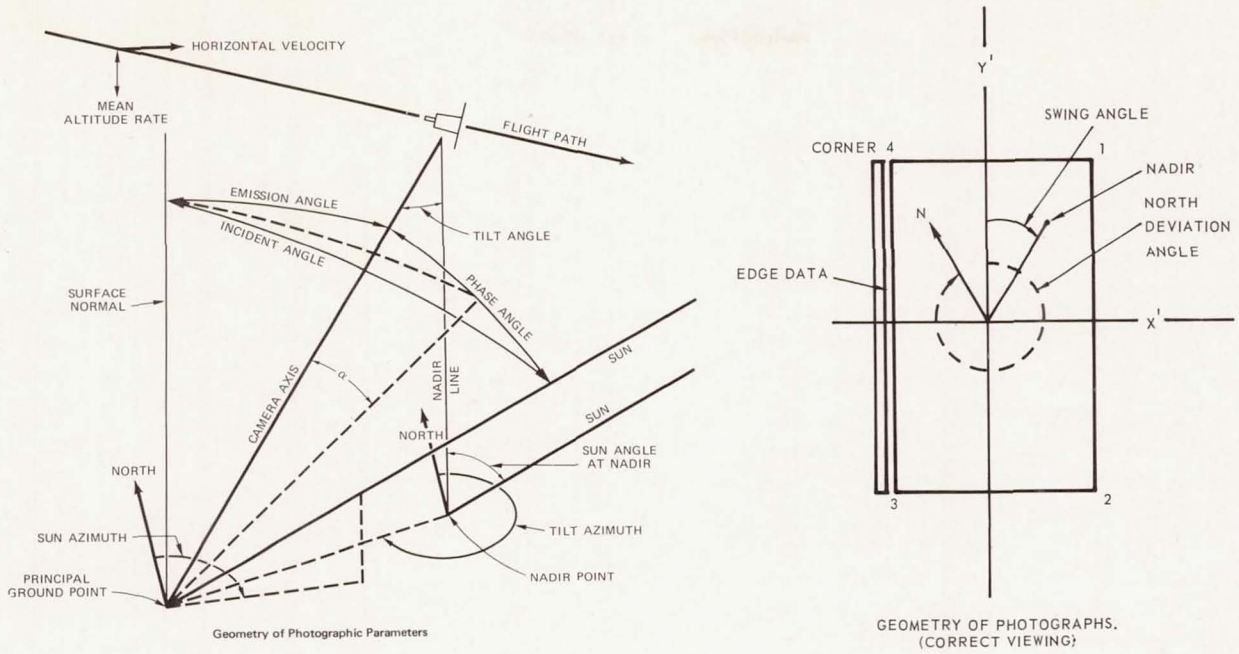



FIGURE 7.—*Photographic geometry.*

## DEFINITION OF TERMS

Plate number—sequential order of presentation in the Atlas from 1 to 675.

Frame number—sequential order of exposure on a given mission.

Spacecraft radius—distance from the center of the Moon to the spacecraft.

Spacecraft altitude—distance of the spacecraft above the mean lunar surface; a spherical moon is assumed with a radius of 1738.09 km.

Longitude (latitude) of nadir point—selenographic longitude (latitude) of the point on the Moon's surface directly below the spacecraft.

Mean altitude rate—rate of change of altitude with respect to time.

Horizontal velocity—component of the spacecraft velocity perpendicular to a lunar radial line through the spacecraft and in the direction of the flightpath.

Tilt azimuth—azimuth of the principal ground point from the spacecraft nadir.

Emission angle—angle between the camera axis and the surface normal at the principal ground point, a level surface being assumed.

Tilt angle—angle between the camera axis and the spacecraft nadir line.

Swing angle—angle between the cross-axis of film frame (the $Y'$-axis) and a line from the center of the frame to the image of the nadir point (measured positive clockwise from the positive $Y'$-axis).

North deviation angle—direction on the photograph of the north vector at the camera axis, measured clockwise from the $Y'$-axis, which is parallel to the 2–1 and the 3–4 sides of the frame.

Sun angle at nadir—angle between the spacecraft nadir line and the Sun's rays.

Phase angle—angle between the camera axis and the Sun's rays.

Sun azimuth at principal ground point—azimuth of the Sun's rays at the principal ground point, measured clockwise from north.

Sun arc at nadir—arc length (km) from the nadir point to the intersection on the lunar surface of the Moon center to the Sun centerline.

Alpha—angle between the camera axis and the projection of surface normal into the phase angle plane.

Incidence angle (Sun angle on photographs)—angle between the surface normal and the Sun's rays at the principal ground point.

Tilt distance—distance from the image of the principal ground point to the image of nadir point measured on the spacecraft film (given for both high- and medium-resolution frames and computed at the scale of the spacecraft film).

Resolution constant—theoretical or geometrical ground resolution of the medium-resolution photographs (in meters). The resolution constant is equal to the slant range along the camera axis, in km, divided by 46 and multiplied by 7.62. The value for the high-resolution photograph is smaller by a factor of 7.62.

Principal ground point—intersection of the camera axis with the lunar surface.

Slant distance—distance from the spacecraft camera to the principal ground point.

Corner coordinates—selenographic coordinates of the corners of ground coverage by each photograph.

## LUNAR FEATURES

To facilitate the location of the principal named lunar features, an alphabetical listing is provided in table 3 identifying the feature, the plate on which it can be found, and the corresponding Lunar Orbiter photograph number. The associated Lunar Aeronautical Chart (LAC) published by the Aeronautical Chart and Information Center, U.S. Air Force, St. Louis, Mo., is referenced. The LAC charts are based on telescopic observation and may be updated by use of Lunar Orbiter photographs.

These charts were of great assistance in locating features on Lunar Orbiter photographs. Where charts were not available, Kuiper's "Rectified Lunar Atlas" was used. Table 3 by no means covers all identifiable features, only about 450 of the most prominent features. Catalogs (see bibliography) prepared by the Lunar and Planetary Laboratory, University of Arizona, list approximately 7000 features and give selenographic coordinates and other pertinent data.

The areas covered by the high-resolution photographs are typically too small to include all, or even most, of a mare. Accordingly, the maria are not specifically identified and located on the high-resolution photographs; they are indicated only on the medium-resolution photographs. Since identification of the maria is helpful in obtaining the proper perspective, these areas are identified on many more photographs than are referenced in table 3.

## PRESENTATION AND ARRANGEMENT OF ATLAS PHOTOGRAPHS

The photographs (plates 1 to 675) are reproduced in 300-line-per-inch halftones at 55 percent GRE scale. They are oriented with north at the top of the page. Because of different orientations of the spacecraft, the edge data may appear on either the right or left margin. Several of the support parameters useful in interpreting the photographs are given in the lower margin. Each high-resolution photograph is presented in three sections. Because of the unequal lengths of the sections, the center coordinates given at the bottom of the photographs are located only approximately in the center of the middle section (designated H2). An approximate scale is provided to help in estimating the size of the prominent lunar features; for comparison, the width of a framelet is approximately 1 cm. The alphanumeric coordinates of major features are given at the bottom of each photograph.

For quick reference as to location, a sketch of a lunar globe with a cartographic coordinate system is included with each photograph. The centers of medium-resolution photographs are indicated on the globe by a cross. The outline of the entire high-resolution photograph is drawn on the globe with the particular section darkened.

The sequence in which photographs are presented in this Atlas has no relationship to a specific mission or the order in which exposures were made on each mission. Rather, a plan similar to that used by ACIC in their LAC charts and Kuiper in the "Rectified Lunar Atlas" was adopted. The Moon is viewed with north at the top. The near and far sides are treated separately. Beginning with the near side, the photographs are presented by starting at the northwestern limb, sweeping to the right to the northeastern limb, then moving southward, and repeating the procedure. The result is six bands running west to east. The same left-to-right procedure was used on the far side, although the coverage was not as orderly and symmetrical. The medium-resolution photograph is generally presented first, always on a left-hand page, followed by the three sections of the corresponding high-resolution photograph. The reference globe in the lower outside edge of the page permits rapid location of a plate showing a particular area.

In a few cases, medium-resolution photographs were significantly degraded and are not included. To maintain an orderly sequence, however, intentional blank pages have been substituted. No data are lost by the omission, since these areas are adequately covered in adjacent photographs.

## AVAILABILITY OF LUNAR ORBITER PHOTOGRAPHS

The halftone prints within this Atlas do not reproduce all the detail in the original photographs. For some uses it may therefore be desirable to obtain prints from the original negatives. Prints may be obtained from the NSSDC in Greenbelt, Md. The standard format is approximately 50 x 60 cm (20 x 24 in.) (GRE scale); other formats, such as microfilm, are available. For further information on availability, inquiries should be addressed to—

National Space Science Data Center
Code 601–4
Goddard Space Flight Center
Greenbelt, Md. 20771

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NEAR SIDE

LEGEND

Medium Resolution Coverage

Mission I

Mission II

Mission III

Mission V

High Resolution Coverage

Mission III

Mission IV

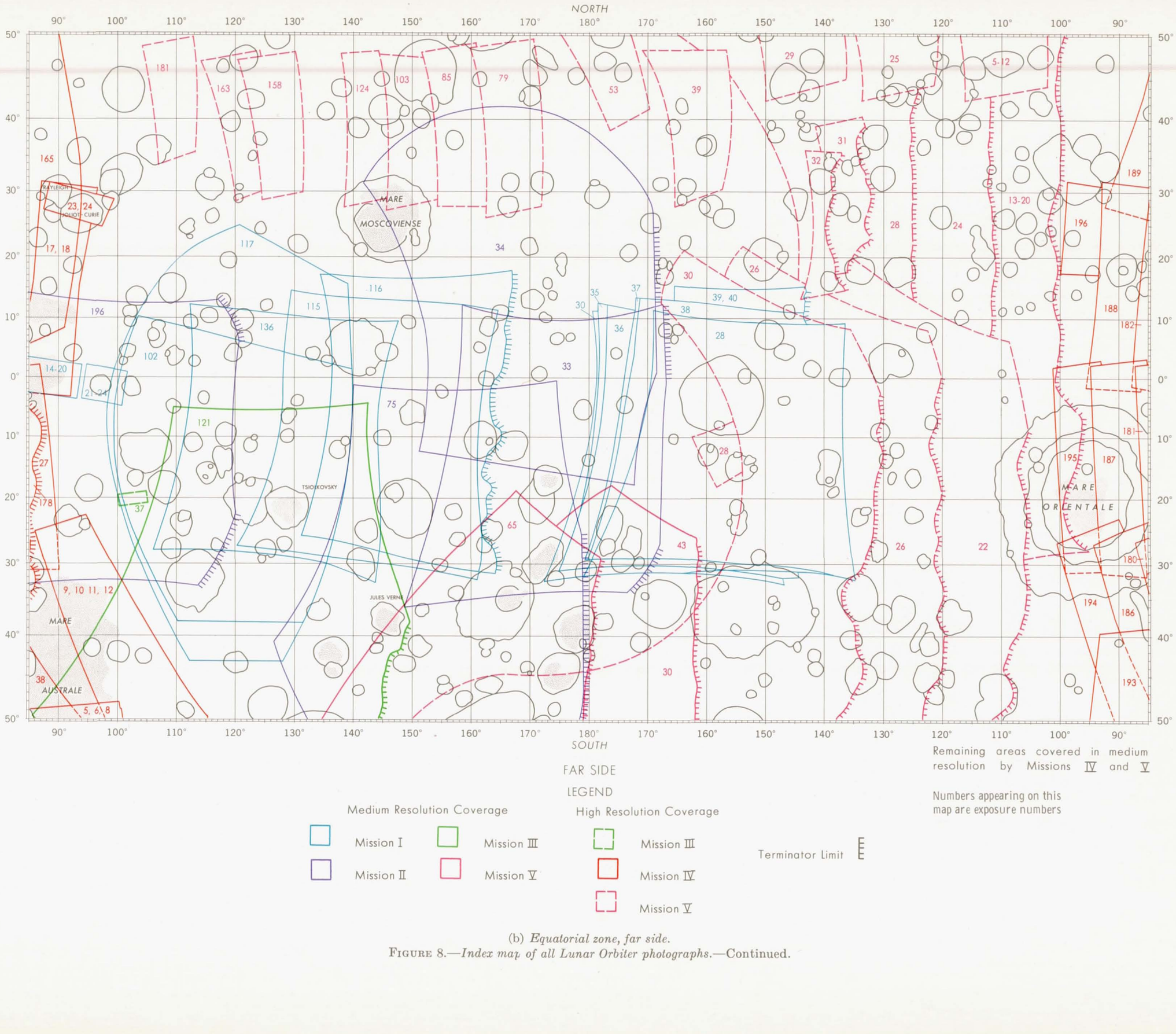
Terminator Limit

Photographic coverage within the dashed outline is shown at a larger scale in figure 9

Numbers appearing on this map are exposure numbers

(a) *Equatorial zone, near side.*

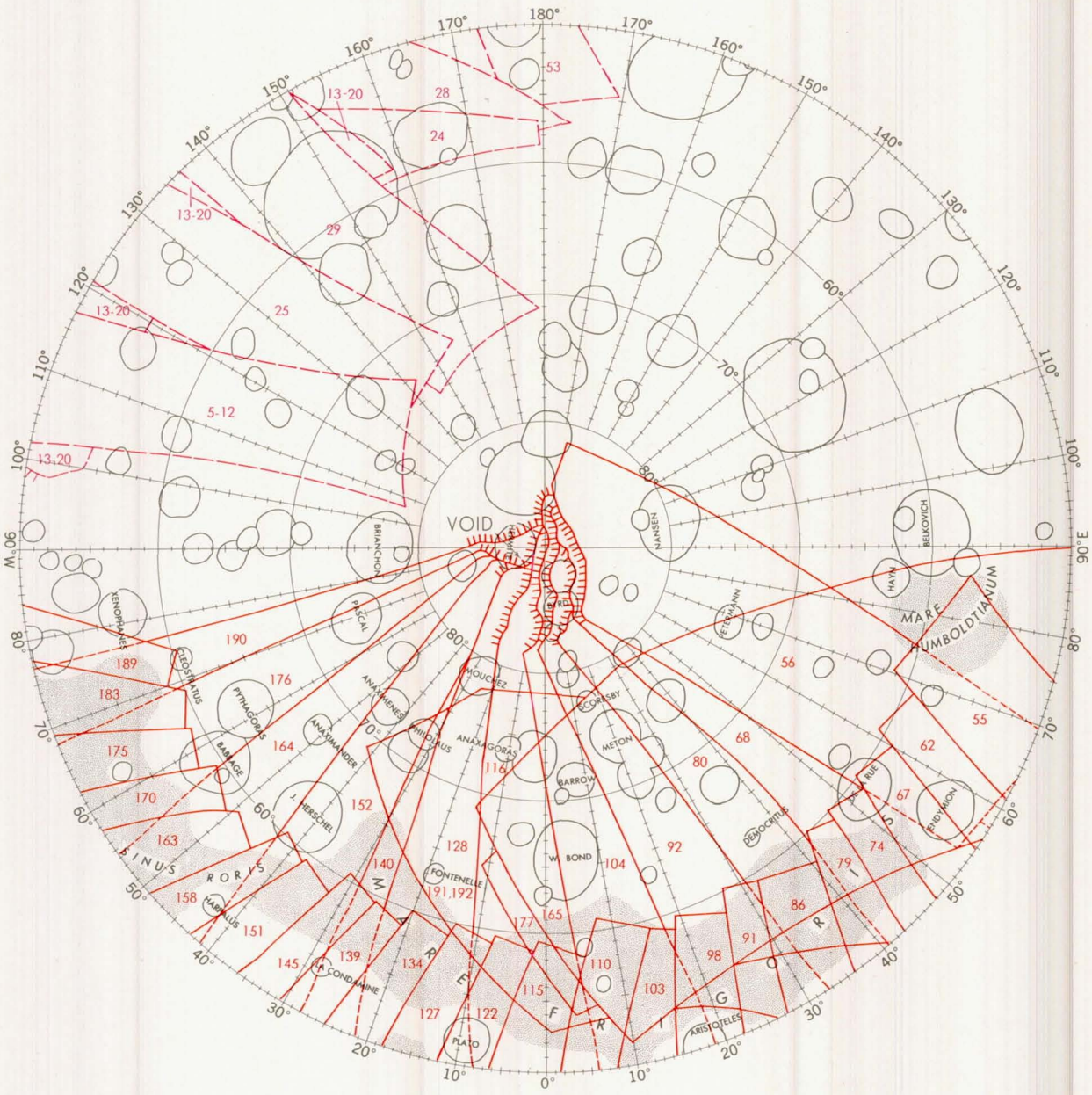
FIGURE 8.—*Index map of all Lunar Orbiter photographs.*




(b) *Equatorial zone, far side.*

FIGURE 8.—*Index map of all Lunar Orbiter photographs.*—Continued.

NORTH POLAR REGION




LEGEND

High Resolution Coverage

Mission Ⅳ

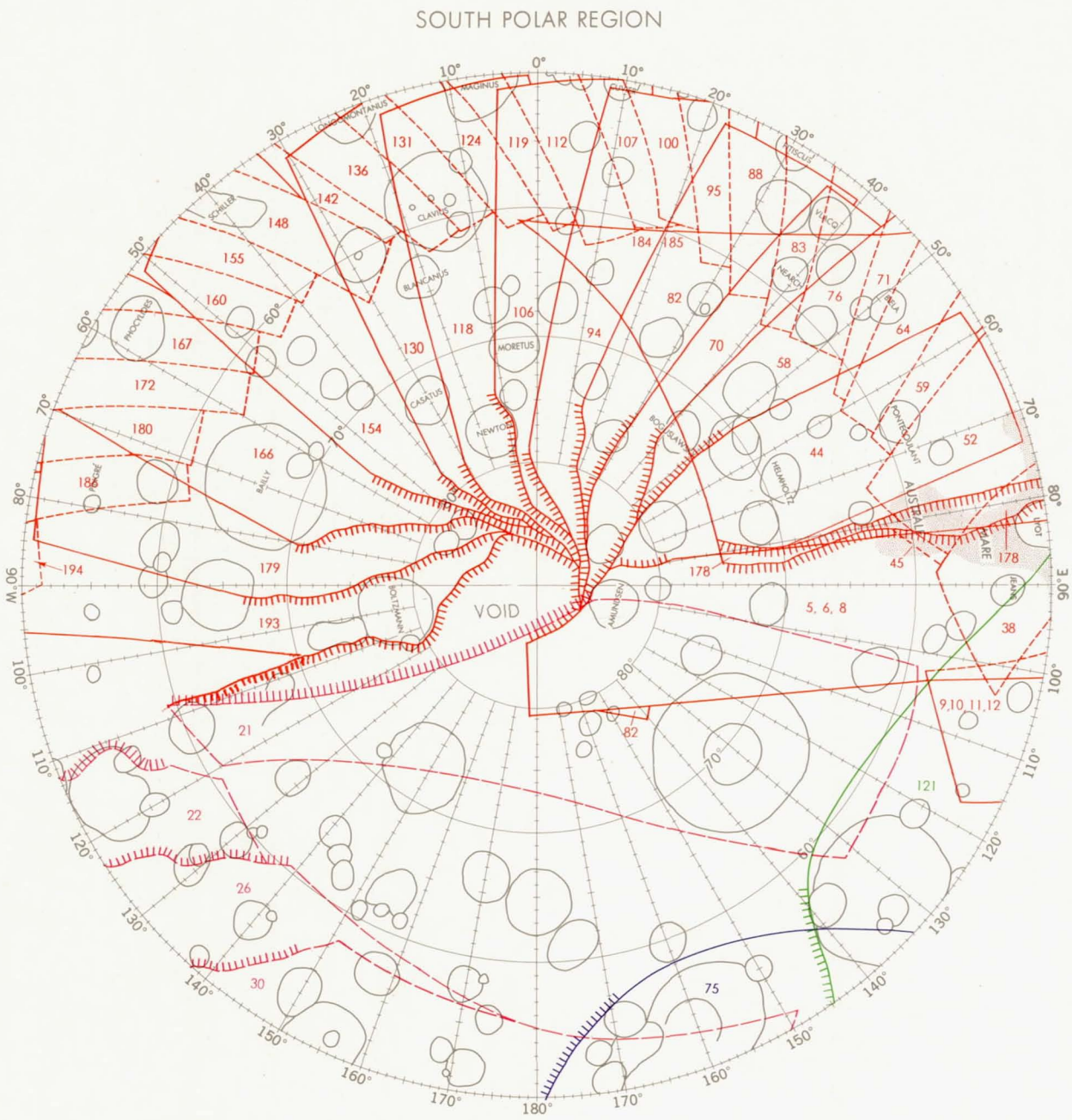
Mission Ⅴ

Terminator Limit

Remaining area covered by Missions Ⅳ & Ⅴ medium resolution.

(c) *North polar region.*

FIGURE 8.—*Index map of all Lunar Orbiter photographs.*—Continued.




(d) *South polar region.*

FIGURE 8.—*Index map of all Lunar Orbiter photographs.*—Concluded.

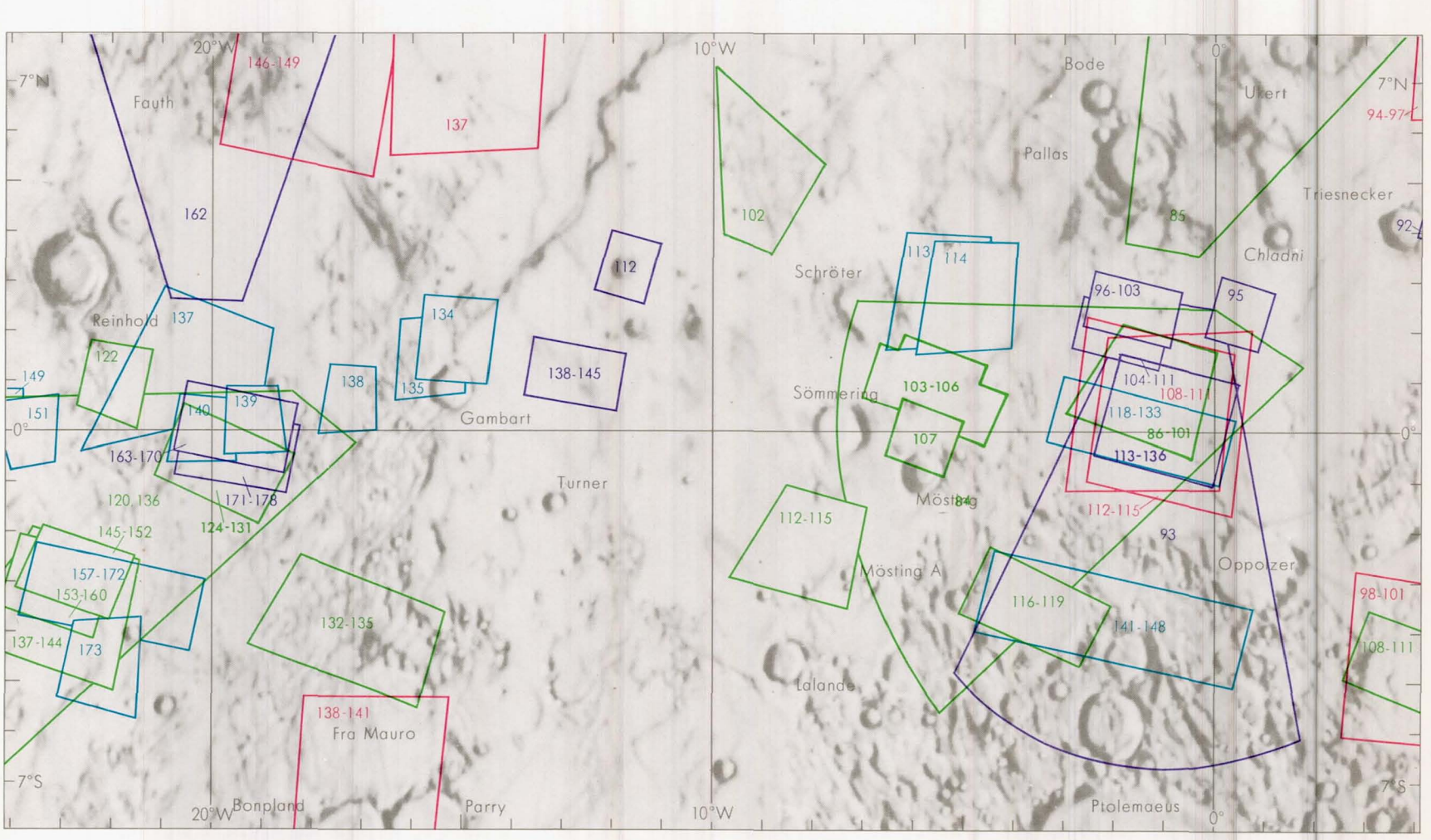



Medium Resolution Coverage

Mission I — Mission III

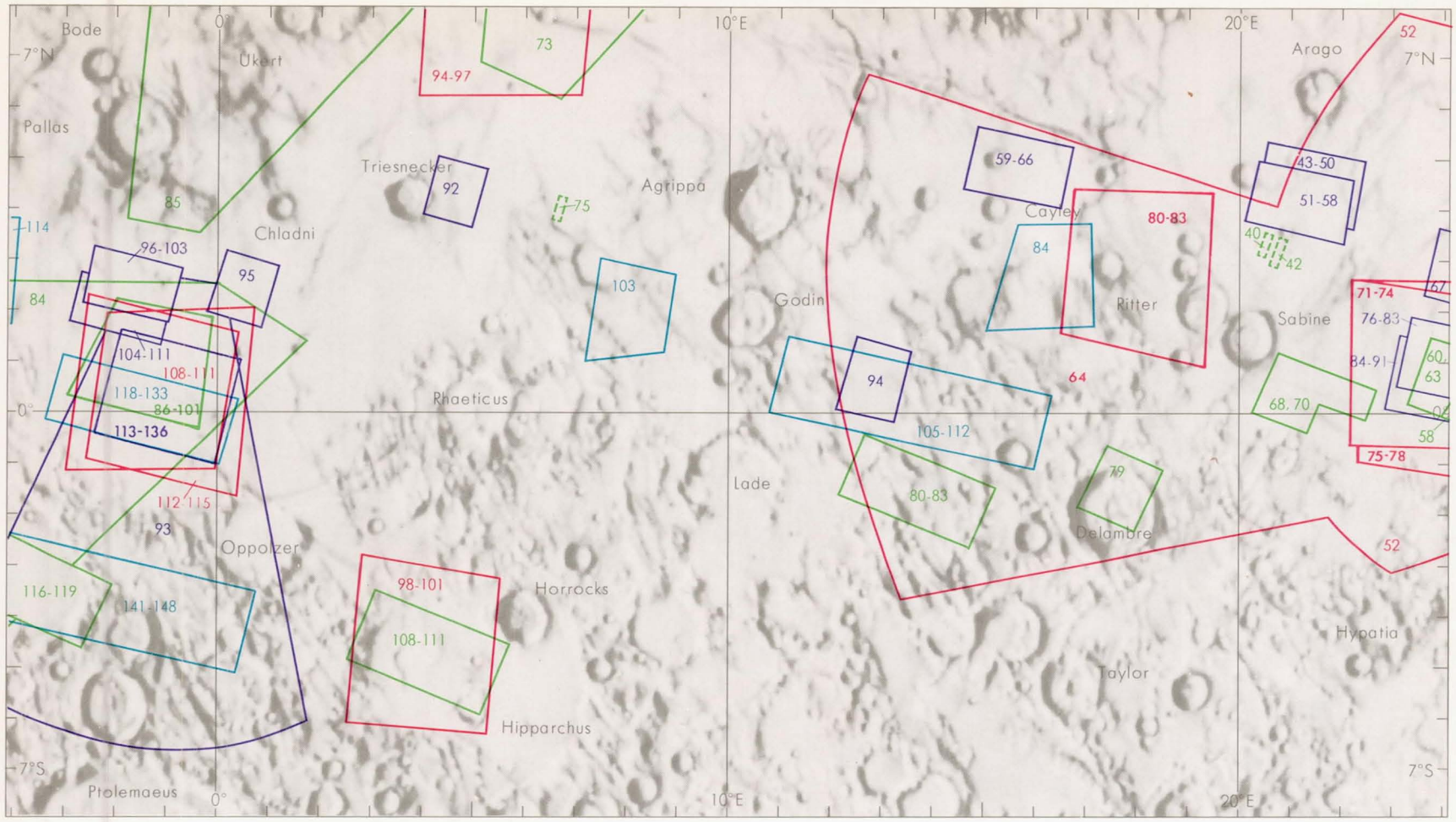
Mission II — Mission V

Numbers appearing on this map are exposure numbers




(a) *West (top) and West Central (bottom) sections.*

FIGURE 9.—*Index map of Apollo zone photographs.*

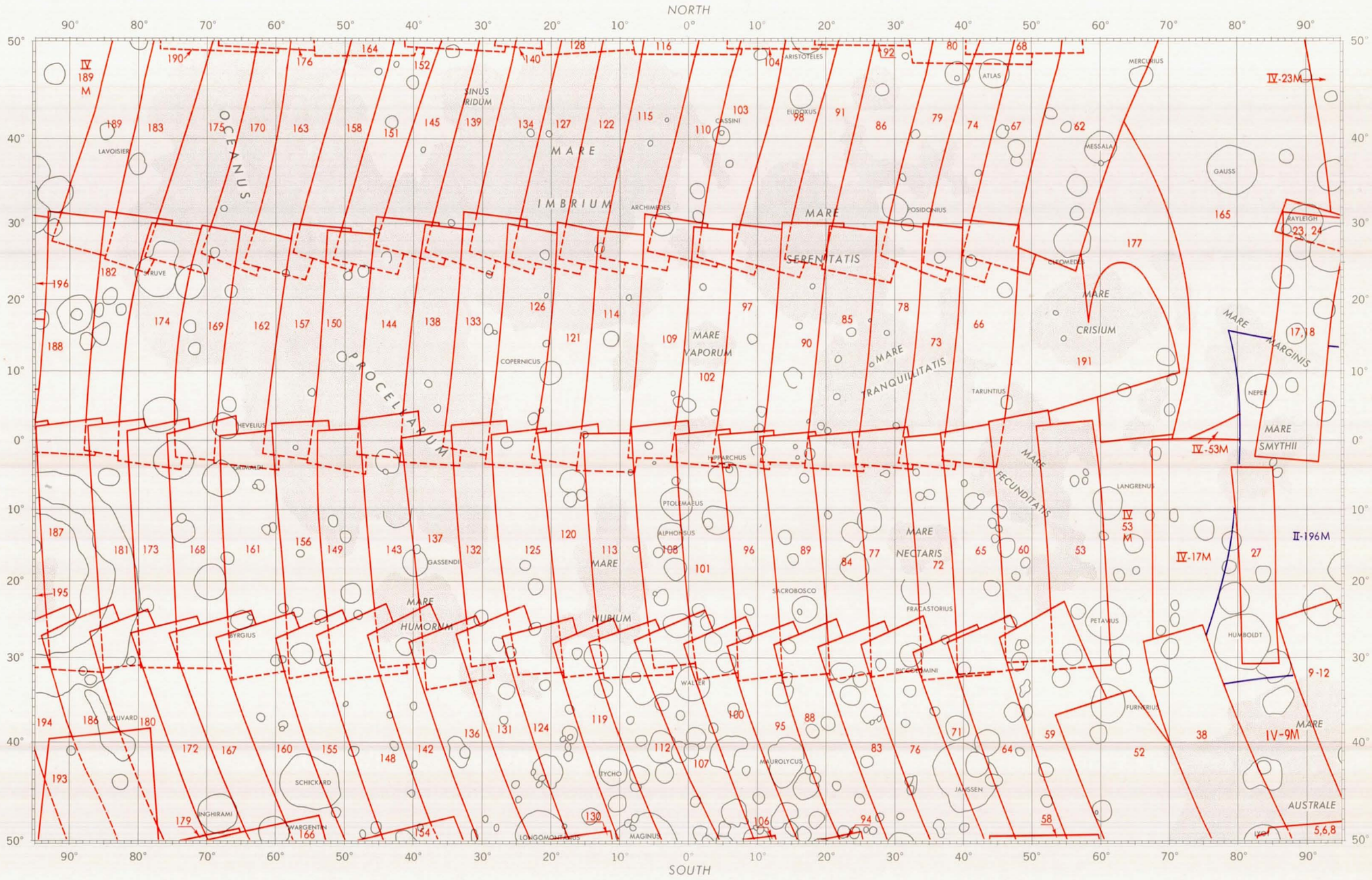






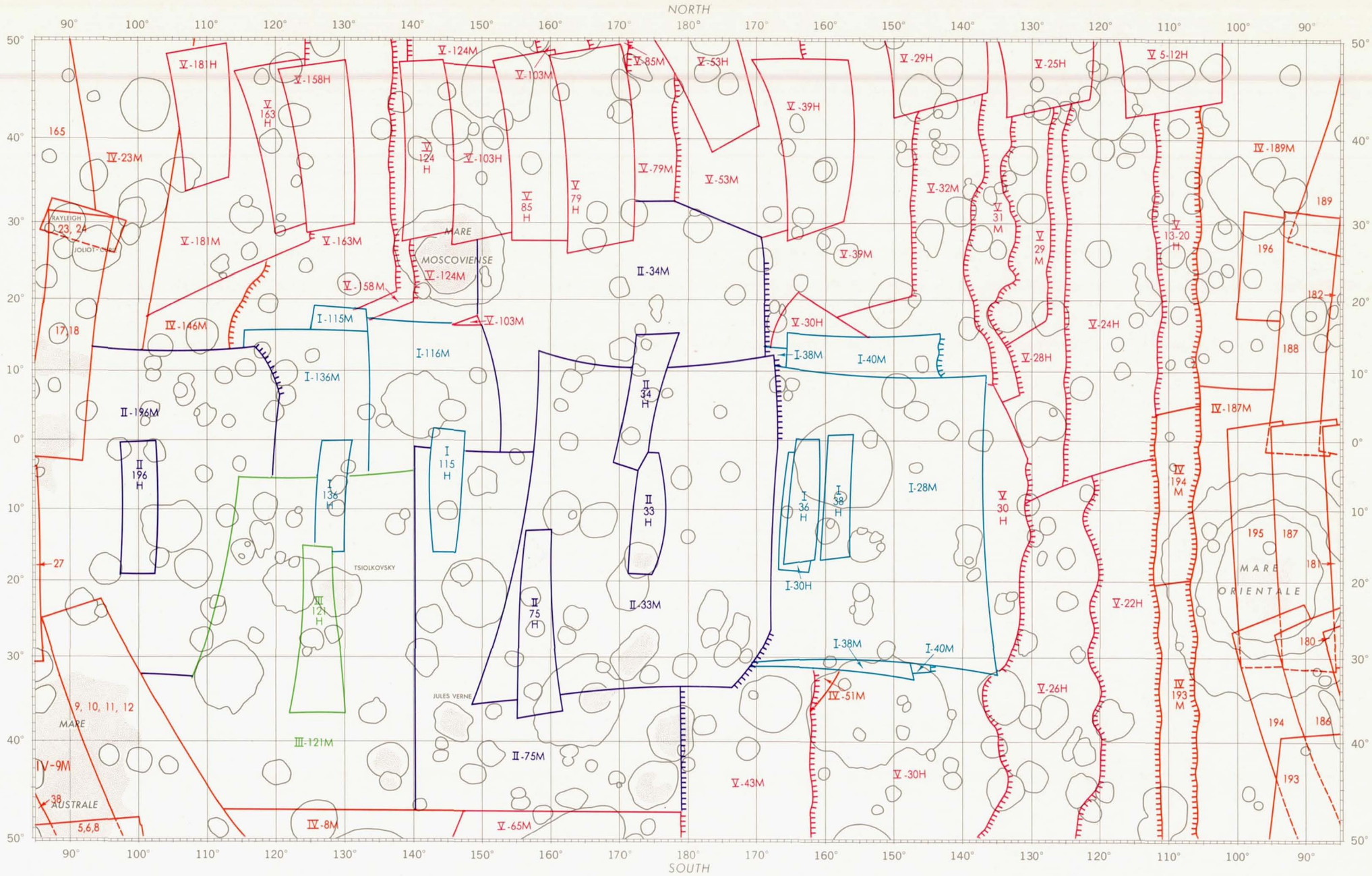
(b) *East Central (top) and East (bottom) sections.*

FIGURE 9.—*Index map of Apollo zone photographs.*—Concluded.




(a) *Equatorial zone, near side.*

FIGURE 10.—*Index map of Atlas photographs.*



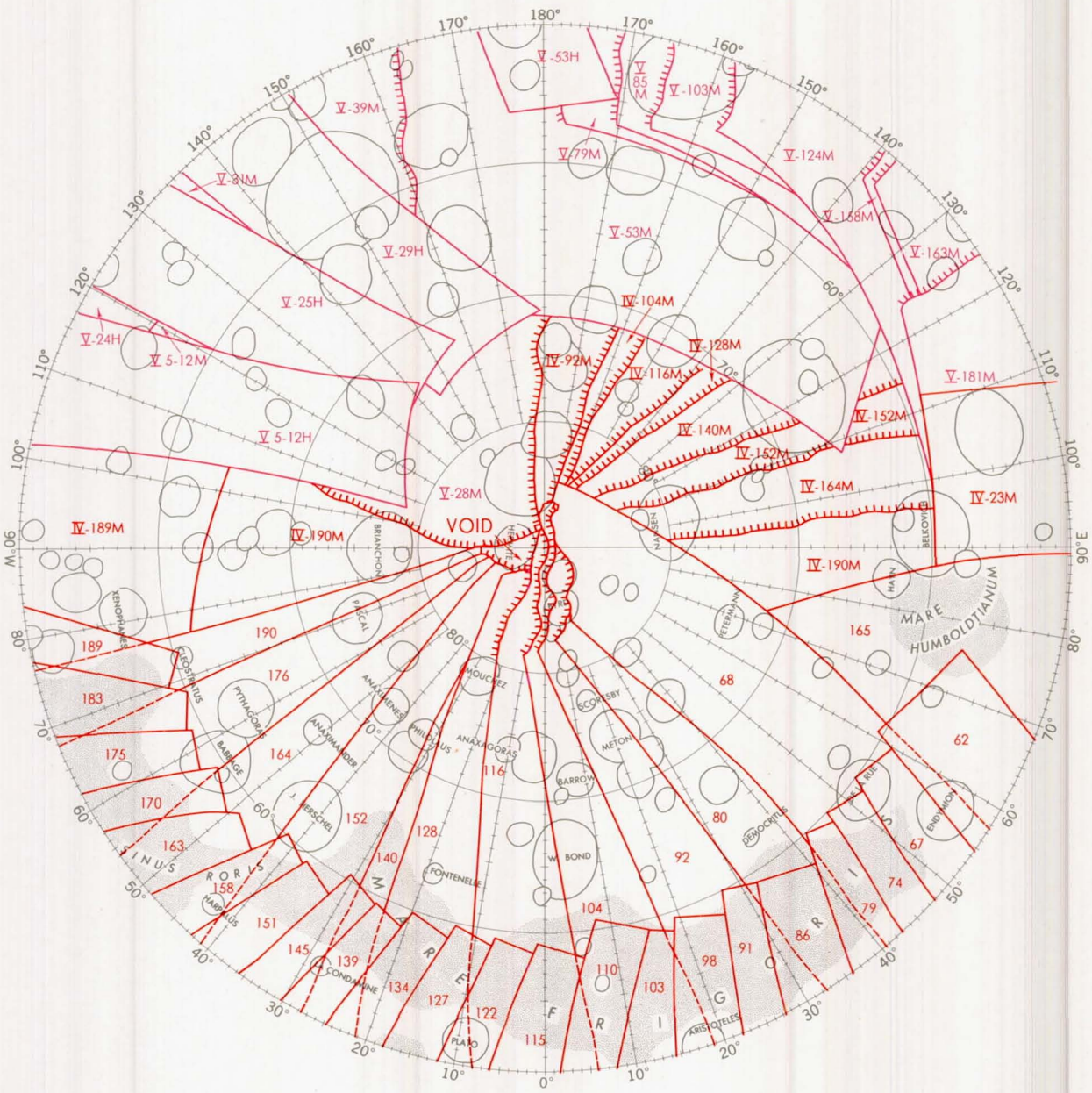

LEGEND

Mission I
Mission II
Mission III
Mission IV
Mission V
Terminator Limit

Several Atlas photographs are not shown in this figure. Refer to the text for a listing.

(b) *Equatorial zone, far side.*

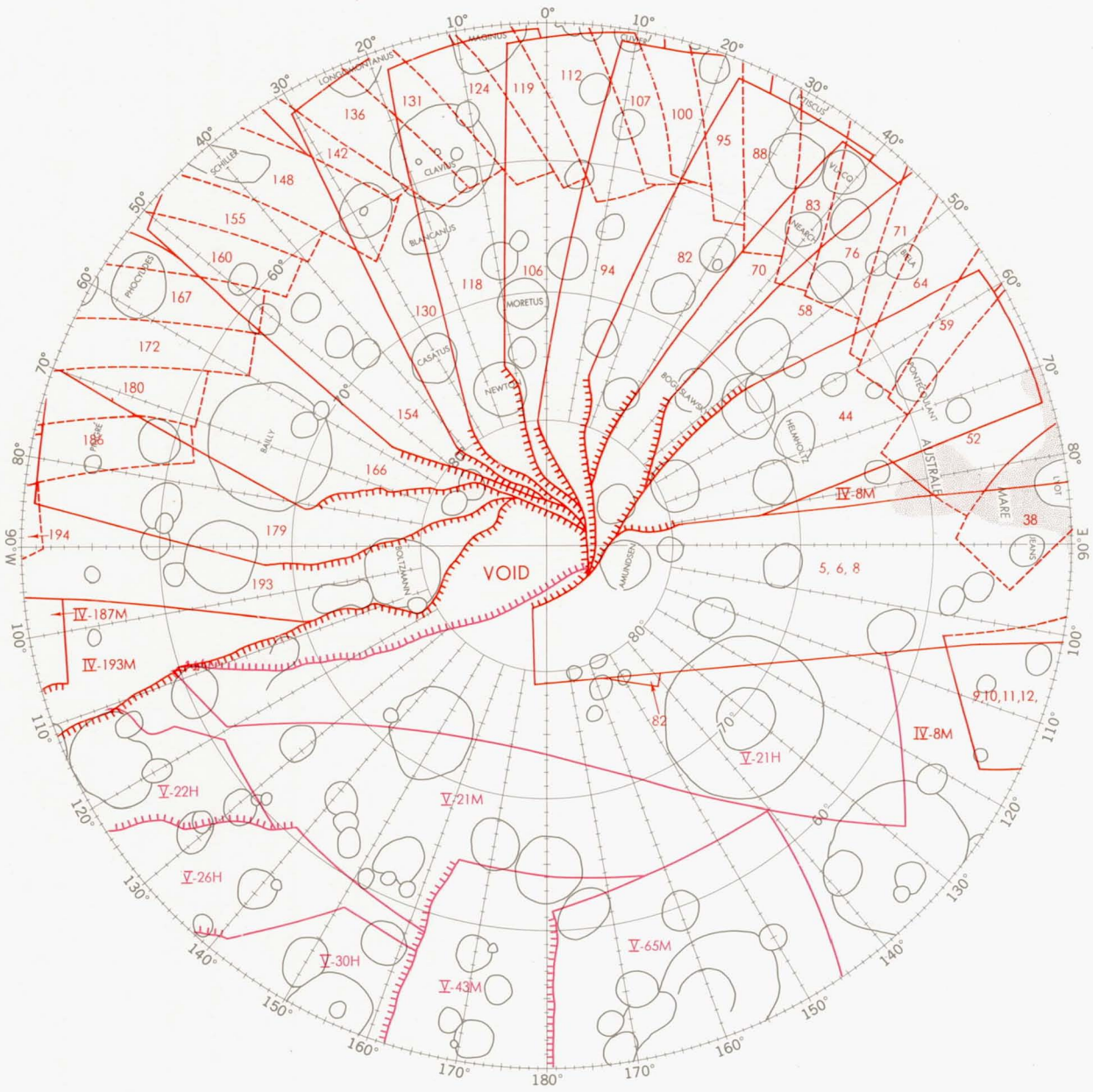
FIGURE 10.—*Index map of Atlas photographs.*—Continued.




(c) *North polar region.*

FIGURE 10.—*Index map of Atlas photographs.*—Continued.

SOUTH POLAR REGION




LEGEND

Mission IV

Mission V

Terminator Limit

Several Atlas photographs are not shown in this figure. Refer to the text for a listing.

(d) *South polar region.*

FIGURE 10.—*Index map of Atlas photographs.*—Concluded.

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TABLE 1.—*Summary of Lunar Orbiter Missions*

| | Lunar Orbiter mission— | | | | | | |
|---|---|---|---|---|---|---|---|
| | I | II | III | IV | V | | |
| | | | | | Initial | Intermediate | Final |
| Primary orbital parameters: | | | | | | | |
| Orbital period | $3^h26^m21^s$ | $3^h28^m34^s$ | $3^h28^m$ | $12^h1^m$ | $8^h30^m29.1^s$ | $8^h22^m40^s$ | $3^h11^m14^s$ |
| Inclination, deg | 12 | 12 | 21 | 85 | 85 | 85 | 85 |
| Perilune altitude, km | 50 | 50 | 55 | 2700 | 200 | 100 | 100 |
| Apolune altitude, km | 1850 | 1850 | 1850 | 6110 | 6092 | 6092 | 1500 |
| Time in orbit summary: | | | | | | | |
| Orbit injection date | 8–14–66 | 11–10–66 | 2–8–67 | 5–8–67 | | 8–5–67 | |
| Total orbits | 547 | 2289 | 1843 | 225 | | 1201 | |
| Total days | 76 | 335 | 243 | 70 | | 179 | |
| Impact date | 10–29–66 | 10–11–67 | 10–9–67 | [1] 7–17–67 | | 1–31–68 | |
| Photography summary: | | | | | | | |
| First photography date | 8–18–66 | 11–18–66 | 2–15–67 | 5–11–67 | | 8–6–67 | |
| Last photography date | 8–29–66 | 11–25–66 | 2–23–67 | 5–26–67 | | 8–18–67 | |
| Total medium-resolution photographs read out | 211 | 208 | 157 | 179 | | 212 | |
| Total high-resolution photographs read out | 211 | 209 | 170 | 180 | | 213 | |
| Altitude range, km | 45 to 1454 | 41 to 1517 | 44 to 1460 | 2670 to 6150 | | 96 to 5755 | |

[1] Last communication.

TABLE 2.—*Photographic*

| Plate number | 1 | 5 | 9 | 13 | 17 | 21 | 25 | 29 | 33 |
|---|---|---|---|---|---|---|---|---|---|
| Frame number | IV–190 | IV–176 | IV–164 | IV–152 | IV–140 | IV–128 | IV–116 | IV–104 | IV–92 |
| *Spacecraft* | | | | | | | | | |
| Position: | | | | | | | | | |
| Spacecraft radius (km) | 5109. 51 | 5090. 09 | 5081. 94 | 5081. 06 | 5091. 27 | 5105. 30 | 5133. 07 | 5163. 77 | 5193. 28 |
| Spacecraft altitude (km) | 3373. 41 | 3353. 98 | 3345. 84 | 3344. 96 | 3355. 17 | 3369. 20 | 3396. 97 | 3427. 67 | 3457. 18 |
| Latitude of nadir point (deg) | 72. 71 | 72. 28 | 72. 26 | 72. 23 | 72. 21 | 71. 90 | 71. 88 | 71. 87 | 71. 92 |
| Longitude of nadir point (deg) | −72. 45 | −59. 77 | −47. 11 | −34. 79 | −22. 53 | −10. 32 | 2. 48 | 15. 88 | 29. 48 |
| Orientation: | | | | | | | | | |
| Mean altitude rate (km/sec) | 0. 25 | 0. 24 | 0. 24 | 0. 24 | 0. 25 | 0. 25 | 0. 25 | 0. 25 | 0. 25 |
| Horizontal velocity (km/sec) | 1. 03 | 1. 03 | 1. 04 | 1. 04 | 1. 03 | 1. 03 | 1. 03 | 1. 02 | 1. 02 |
| Tilt azimuth (med. res.) | 125. 54 | 142. 71 | 136. 12 | 142. 85 | 117. 53 | 171. 20 | 148. 11 | 153. 57 | 129. 65 |
| Tilt azimuth (high res.) | 125. 57 | 142. 75 | 136. 17 | 142. 89 | 117. 60 | 171. 23 | 148. 19 | 153. 63 | 129. 77 |
| Emission angle (deg) | 5. 60 | 4. 28 | 4. 16 | 4. 50 | 3. 45 | 3. 01 | 1. 90 | 2. 53 | 1. 73 |
| Tilt angle (deg) | 1. 90 | 1. 46 | 1. 42 | 1. 54 | 1. 18 | 1. 02 | 0. 64 | 0. 85 | 0. 58 |
| Swing angle (deg) (med. res.) | 306. 25 | 319. 55 | 313. 07 | 321. 03 | 297. 38 | 347. 27 | 325. 70 | 330. 30 | 306. 33 |
| Swing angle (deg) (high res.) | 306. 29 | 319. 60 | 313. 12 | 321. 07 | 297. 45 | 347. 30 | 325. 78 | 330. 36 | 306. 45 |
| North deviation angle (deg) | 352. 33 | 352. 19 | 351. 70 | 353. 35 | 353. 99 | 355. 25 | 355. 69 | 354. 65 | 354. 09 |
| *Photography* | | | | | | | | | |
| Time of exposure (GMT): | | | | | | | | | |
| Year | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| Month | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Day | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |
| Hour | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 |
| Minute | 15 | 14 | 12 | 10 | 8 | 4 | 0 | 57 | 53 |
| Second (med. res.) | 53. 53 | 12. 83 | 46. 93 | 43. 83 | 0. 93 | 17. 03 | 41. 03 | 8. 03 | 57. 03 |
| Second (high res.) | 53. 41 | 12. 71 | 46. 81 | 43. 71 | 0. 81 | 16. 91 | 40. 91 | 7. 91 | 56. 91 |
| Illumination (deg): | | | | | | | | | |
| Sun angle at nadir | 80. 19 | 79. 87 | 79. 77 | 79. 76 | 79. 77 | 79. 64 | 79. 51 | 79. 23 | 78. 94 |
| Phase angle | 82. 08 | 81. 23 | 81. 15 | 81. 19 | 80. 94 | 80. 31 | 80. 09 | 79. 96 | 79. 51 |
| Sun azimuth at principal ground point | 129. 21 | 125. 69 | 126. 81 | 126. 44 | 127. 75 | 122. 30 | 124. 13 | 125. 31 | 127. 43 |
| Sun arc at nadir | 2429. 76 | 2420. 19 | 2417. 16 | 2416. 70 | 2417. 09 | 2413. 11 | 2409. 26 | 2400. 73 | 2391. 83 |
| Alpha | −5. 59 | −3. 99 | −4. 03 | −4. 21 | −3. 44 | −1. 97 | −1. 71 | −2. 19 | −1. 72 |
| Incidence angle | 76. 50 | 77. 25 | 77. 12 | 76. 99 | 77. 50 | 78. 35 | 78. 38 | 77. 78 | 77. 79 |
| *Photographs* | | | | | | | | | |
| Tilt distance (mm) (film scale): | | | | | | | | | |
| Med. res. | 2. 65 | 2. 04 | 1. 98 | 2. 14 | 1. 64 | 1. 43 | 0. 89 | 1. 18 | 0. 80 |
| High res. | 20. 28 | 15. 57 | 15. 16 | 16. 40 | 12. 54 | 10. 94 | 6. 85 | 9. 06 | 6. 16 |
| Resolution constant (m) | 559. 08 | 555. 49 | 554. 11 | 554. 05 | 555. 50 | 557. 74 | 562. 17 | 567. 34 | 572. 12 |
| Principal ground point: | | | | | | | | | |
| Latitude (deg) | 70. 33 | 69. 96 | 70. 20 | 69. 78 | 71. 06 | 69. 93 | 70. 80 | 70. 35 | 71. 17 |
| Longitude (deg) | −63. 47 | −54. 77 | −41. 49 | −29. 60 | −16. 31 | −9. 43 | 4. 49 | 18. 10 | 32. 23 |
| Slant distance (km) | 3378. 89 | 3357. 18 | 3348. 85 | 3348. 49 | 3357. 25 | 3370. 79 | 3397. 60 | 3428. 79 | 3457. 71 |
| Corner coordinates (med. res.): | | | | | | | | | |
| 1 Latitude (deg) | 43. 43 | 42. 01 | 42. 72 | 20. 33 | 41. 92 | 24. 04 | 29. 20 | 26. 11 | 19. 33 |
| 1 Longitude (deg) | −147. 49 | −139. 33 | −126. 59 | 49. 91 | −100. 74 | 83. 90 | 84. 94 | 98. 10 | 115. 00 |
| 2 Latitude (deg) | 38. 75 | 37. 16 | 38. 05 | 36. 94 | 37. 72 | 25. 01 | 23. 27 | 16. 71 | 32. 42 |
| 2 Longitude (deg) | −137. 25 | −129. 24 | −116. 37 | −102. 70 | −90. 28 | 56. 98 | 73. 36 | 87. 71 | −44. 74 |
| 3 Latitude (deg) | 25. 97 | 21. 95 | 24. 22 | 21. 83 | 25. 15 | 31. 67 | 15. 01 | 14. 67 | 16. 06 |
| 3 Longitude (deg) | −128. 38 | −121. 33 | −108. 00 | −94. 82 | −81. 32 | −82. 55 | −64. 27 | −52. 39 | −39. 03 |
| 4 Latitude (deg) | 30. 50 | 28. 82 | 29. 35 | 28. 31 | 40. 71 | 34. 49 | 32. 24 | 32. 27 | 27. 86 |
| 4 Longitude (deg) | 176. 57 | −171. 95 | −159. 82 | −146. 11 | −118. 12 | −110. 80 | −98. 84 | −85. 82 | −74. 84 |
| Corner coordinates (high res.): | | | | | | | | | |
| 1 Latitude (deg) | 81. 80 | 81. 96 | 81. 78 | 82. 37 | 82. 36 | 83. 13 | 82. 98 | 82. 64 | 82. 08 |
| 1 Longitude (deg) | 29. 10 | 34. 11 | 48. 57 | 58. 34 | 84. 16 | 83. 00 | 107. 51 | 116. 95 | 138. 67 |
| 2 Latitude (deg) | 47. 68 | 47. 57 | 47. 92 | 47. 43 | 49. 02 | 47. 67 | 48. 61 | 47. 77 | 48. 57 |
| 2 Longitude (deg) | −59. 38 | −51. 01 | −37. 96 | −25. 20 | −11. 38 | −4. 18 | 10. 17 | 23. 18 | 37. 11 |
| 3 Latitude (deg) | 48. 75 | 48. 52 | 48. 92 | 48. 28 | 49. 77 | 48. 17 | 49. 08 | 48. 37 | 49. 21 |
| 3 Longitude (deg) | −75. 25 | −66. 69 | −53. 68 | −40. 81 | −27. 41 | −19. 88 | −5. 87 | 7. 20 | 20. 80 |
| 4 Latitude (deg) | 87. 41 | 87. 61 | 87. 66 | 87. 35 | 86. 41 | 86. 44 | 85. 77 | 86. 22 | 85. 59 |
| 4 Longitude (deg) | 170. 33 | −171. 22 | −165. 28 | −136. 04 | −145. 92 | −116. 88 | −118. 06 | −103. 99 | −104. 66 |

*Support Data*

| 37 | 41 | 45 | 49 | 53 | 57 | 61 | 65 | 69 | 73 | 77 | 81 | 85 | 89 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV–80 | IV–68 | IV–56 | IV–189 | IV–183 | IV–175 | IV–170 | IV–163 | IV–158 | IV–151 | IV–145 | IV–139 | IV–134 | IV–127 |
| 5215. 16 | 5223. 87 | 5230. 75 | 4613. 99 | 4610. 71 | 4607. 88 | 4606. 76 | 4602. 84 | 4601. 72 | 4602. 03 | 4604. 24 | 4608. 55 | 4614. 63 | 4622. 47 |
| 3479. 06 | 3487. 77 | 3494. 65 | 2877. 89 | 2874. 61 | 2871. 78 | 2870. 66 | 2866. 74 | 2865. 62 | 2865. 93 | 2868. 14 | 2872. 45 | 2878. 53 | 2886. 37 |
| 71. 89 | 71. 63 | 71. 63 | 42. 88 | 42. 84 | 42. 86 | 43. 00 | 42. 87 | 42. 85 | 42. 84 | 42. 82 | 42. 82 | 42. 80 | 42. 81 |
| 43. 34 | 57. 12 | 71. 06 | −84. 00 | −77. 39 | −70. 79 | −64. 22 | −57. 71 | −51. 22 | −44. 74 | −38. 27 | −31. 79 | −25. 30 | −18. 79 |
| 0. 25 | 0. 25 | 0. 25 | 0. 16 | 0. 16 | 0. 16 | 0. 16 | 0. 16 | 0. 16 | 0. 16 | 0. 16 | 0. 16 | 0. 16 | 0. 16 |
| 1. 01 | 1. 01 | 1. 01 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 |
| 146. 98 | 239. 67 | 214. 97 | 110. 09 | 79. 46 | 116. 46 | 108. 25 | 115. 78 | 106. 80 | 118. 58 | 96. 52 | 102. 72 | 53. 02 | 114. 03 |
| 147. 04 | 239. 59 | 214. 94 | 110. 14 | 79. 49 | 116. 51 | 108. 30 | 115. 82 | 106. 86 | 118. 61 | 96. 57 | 102. 78 | 53. 04 | 114. 07 |
| 2. 53 | 1. 96 | 2. 30 | 5. 11 | 7. 52 | 5. 40 | 5. 81 | 5. 81 | 4. 44 | 6. 26 | 5. 45 | 4. 32 | 9. 91 | 5. 93 |
| 0. 84 | 0. 65 | 0. 76 | 1. 92 | 2. 82 | 2. 03 | 2. 19 | 2. 19 | 1. 67 | 2. 36 | 2. 05 | 1. 62 | 3. 71 | 2. 22 |
| 322. 63 | 50. 45 | 24. 90 | 273. 13 | 242. 60 | 279. 55 | 270. 84 | 278. 78 | 270. 65 | 281. 89 | 259. 58 | 267. 12 | 218. 14 | 278. 25 |
| 322. 70 | 50. 37 | 24. 87 | 273. 18 | 242. 63 | 279. 59 | 270. 88 | 278. 83 | 270. 71 | 281. 93 | 259. 63 | 267. 18 | 218. 16 | 278. 29 |
| 353. 08 | 354. 04 | 352. 38 | 340. 43 | 338. 73 | 340. 50 | 339. 57 | 340. 23 | 341. 49 | 340. 45 | 340. 01 | 342. 05 | 339. 70 | 341. 33 |
| 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 16 | 15 | 14 | 25 | 24 | 24 | 23 | 23 | 22 | 22 | 21 | 21 | 20 | 20 |
| 6 | 6 | 6 | 6 | 18 | 6 | 18 | 6 | 18 | 6 | 18 | 6 | 18 | 6 |
| 51 | 48 | 46 | 36 | 36 | 35 | 35 | 34 | 33 | 32 | 31 | 29 | 27 | 26 |
| 7. 13 | 26. 73 | 39. 33 | 36. 03 | 7. 43 | 41. 23 | 18. 43 | 26. 23 | 33. 13 | 27. 63 | 9. 33 | 40. 13 | 59. 13 | 10. 33 |
| 7. 01 | 26. 61 | 39. 21 | 35. 91 | 7. 31 | 41. 11 | 18. 31 | 26. 11 | 33. 01 | 27. 51 | 9. 21 | 40. 01 | 59. 01 | 10. 21 |
| 78. 54 | 78. 02 | 77. 63 | 74. 79 | 74. 42 | 74. 09 | 73. 79 | 73. 48 | 73. 21 | 72. 95 | 72. 70 | 72. 45 | 72. 19 | 71. 92 |
| 79. 33 | 77. 78 | 77. 69 | 76. 70 | 77. 00 | 76. 07 | 75. 98 | 75. 63 | 74. 88 | 75. 25 | 74. 72 | 74. 07 | 74. 43 | 74. 13 |
| 128. 92 | 124. 40 | 126. 81 | 106. 13 | 108. 91 | 106. 76 | 107. 74 | 107. 66 | 107. 65 | 108. 29 | 109. 12 | 108. 58 | 113. 25 | 109. 58 |
| 2379. 71 | 2364. 12 | 2352. 30 | 2266. 26 | 2255. 09 | 2244. 92 | 2236. 00 | 2226. 58 | 2218. 33 | 2210. 43 | 2202. 80 | 2195. 22 | 2187. 45 | 2179. 31 |
| −2. 37 | 0. 72 | −0. 19 | −5. 07 | −6. 87 | −5. 28 | −5. 80 | −5. 71 | −4. 44 | −6. 10 | −5. 38 | −4. 31 | −6. 07 | −5. 89 |
| 76. 96 | 78. 51 | 77. 51 | 71. 63 | 70. 16 | 70. 80 | 70. 18 | 69. 93 | 70. 45 | 69. 15 | 69. 35 | 69. 76 | 68. 57 | 68. 25 |
| 1. 17 | 0. 91 | 1. 06 | 2. 68 | 3. 94 | 2. 83 | 3. 05 | 3. 05 | 2. 34 | 3. 29 | 2. 86 | 2. 27 | 5. 18 | 3. 10 |
| 8. 99 | 6. 95 | 8. 14 | 20. 47 | 30. 12 | 21. 67 | 23. 33 | 23. 34 | 17. 85 | 25. 15 | 21. 87 | 17. 33 | 39. 60 | 23. 73 |
| 575. 84 | 577. 21 | 578. 39 | 476. 90 | 477. 18 | 475. 97 | 475. 91 | 475. 26 | 474. 69 | 475. 27 | 475. 38 | 475. 79 | 478. 97 | 478. 55 |
| 70. 45 | 70. 93 | 70. 36 | 41. 71 | 43. 52 | 41. 29 | 41. 77 | 41. 22 | 41. 99 | 40. 88 | 42. 34 | 42. 17 | 46. 31 | 41. 21 |
| 46. 09 | 53. 66 | 68. 44 | −79. 99 | −71. 01 | −66. 78 | −59. 60 | −53. 37 | −47. 65 | −40. 20 | −33. 70 | −28. 24 | −18. 14 | −14. 29 |
| 3480. 19 | 3488. 44 | 3495. 58 | 2882. 19 | 2883. 93 | 2876. 59 | 2876. 23 | 2872. 30 | 2868. 87 | 2872. 38 | 2873. 03 | 2875. 52 | 2894. 74 | 2892. 19 |
| 36. 49 | 22. 51 | 21. 85 | 20. 46 | 15. 90 | 20. 26 | 16. 42 | 18. 59 | 23. 49 | 16. 44 | 17. 80 | 23. 89 | 18. 61 | 16. 57 |
| −41. 59 | 149. 07 | 160. 07 | −16. 04 | −15. 88 | −3. 45 | 7. 70 | 11. 56 | 14. 29 | 26. 99 | 34. 68 | 34. 37 | 41. 32 | 54. 21 |
| 31. 70 | 27. 08 | 24. 13 | −2. 87 | −5. 05 | −6. 16 | −5. 84 | −6. 23 | 1. 34 | −5. 83 | −0. 80 | 2. 07 | 6. 67 | −4. 72 |
| −31. 23 | 119. 49 | 133. 03 | −38. 24 | −25. 54 | −23. 07 | −15. 62 | −8. 79 | −7. 75 | 5. 77 | 7. 24 | 11. 89 | 23. 34 | 31. 85 |
| 30. 95 | 27. 77 | 24. 96 | 1. 84 | 5. 14 | 2. 64 | 0. 22 | 0. 85 | 2. 57 | 0. 64 | 2. 05 | 2. 14 | −1. 18 | 1. 30 |
| −30. 48 | 120. 25 | 133. 74 | −139. 51 | −127. 54 | 125. 23 | −120. 16 | −112. 75 | −106. 15 | −98. 96 | −92. 76 | −86. 73 | −77. 82 | −72. 30 |
| 28. 87 | 32. 00 | 25. 24 | 59. 30 | 58. 96 | 58. 37 | 59. 93 | 59. 75 | 56. 26 | 59. 78 | 57. 18 | 57. 21 | 60. 08 | 59. 28 |
| −61. 25 | 130. 48 | −25. 91 | 165. 46 | 165. 72 | 174. 77 | −178. 16 | −170. 98 | −164. 75 | −158. 88 | −154. 99 | −140. 49 | −127. 81 | −129. 12 |
| 81. 89 | 82. 26 | 81. 84 | 55. 73 | 57. 34 | 55. 26 | 55. 55 | 55. 09 | 56. 23 | 54. 78 | 56. 29 | 56. 58 | 60. 84 | 55. 44 |
| 146. 08 | 159. 70 | 167. 49 | −61. 25 | −49. 76 | −48. 39 | −40. 45 | −34. 90 | −29. 36 | −21. 97 | −14. 34 | −10. 00 | 5. 72 | 3. 97 |
| 47. 47 | 48. 19 | 47. 34 | 23. 11 | 25. 34 | 22. 64 | 23. 23 | 22. 58 | 23. 52 | 22. 17 | 23. 96 | 23. 68 | 28. 44 | 22. 41 |
| 50. 36 | 58. 18 | 72. 01 | −81. 62 | −73. 11 | −68. 38 | −61. 49 | −55. 04 | −48. 94 | −41. 78 | −35. 44 | −29. 35 | −19. 88 | −15. 57 |
| 48. 24 | 48. 63 | 47. 99 | 25. 76 | 28. 12 | 25. 31 | 26. 01 | 25. 30 | 25. 99 | 24. 90 | 26. 62 | 26. 07 | 30. 92 | 25. 02 |
| 34. 21 | 41. 84 | 55. 84 | −90. 95 | −82. 48 | −77. 67 | −70. 77 | −64. 31 | −58. 28 | −51. 04 | −44. 76 | −38. 73 | −29. 49 | −24. 94 |
| 86. 33 | 85. 40 | 86. 30 | 59. 82 | 61. 90 | 59. 29 | 59. 79 | 59. 16 | 60. 11 | 58. 79 | 60. 49 | 60. 38 | 65. 51 | 59. 34 |
| −87. 99 | −81. 36 | −67. 40 | −76. 08 | −65. 28 | −63. 00 | −55. 09 | −49. 41 | −44. 45 | −36. 39 | −29. 36 | −25. 36 | −12. 04 | −10. 93 |

TABLE 2.—*Photographic*

| Plate number | 93 | 97 | 101 | 105 | 109 | 113 | 117 | 121 | 125 |
|---|---|---|---|---|---|---|---|---|---|
| Frame number | IV–122 | IV–115 | IV–110 | IV–103 | IV–98 | IV–91 | IV–86 | IV–79 | IV–74 |
| *Spacecraft* | | | | | | | | | |
| Position: | | | | | | | | | |
| Spacecraft radius (km) | 4631. 14 | 4641. 26 | 4651. 94 | 4662. 67 | 4673. 62 | 4683. 37 | 4692. 20 | 4699. 90 | 4705. 93 |
| Spacecraft altitude (km) | 2895. 04 | 2905. 16 | 2915. 84 | 2926. 57 | 2937. 52 | 2947. 27 | 2956. 10 | 2963. 80 | 2969. 83 |
| Latitude of nadir point (deg) | 42. 76 | 42. 76 | 42. 77 | 42. 76 | 42. 81 | 42. 80 | 42. 80 | 42. 79 | 42. 76 |
| Longitude of nadir point (deg) | −12. 27 | −5. 70 | 0. 86 | 7. 57 | 14. 21 | 20. 90 | 27. 61 | 34. 33 | 41. 06 |
| Orientation: | | | | | | | | | |
| Mean altitude rate (km/sec) | 0. 16 | 0. 16 | 0. 16 | 0. 17 | 0. 17 | 0. 17 | 0. 17 | 0. 17 | 0. 18 |
| Horizontal velocity (km/sec) | 1. 14 | 1. 13 | 1. 13 | 1. 13 | 1. 13 | 1. 13 | 1. 12 | 1. 12 | 1. 12 |
| Tilt azimuth (med. res.) | 105. 82 | 101. 17 | 94. 58 | 107. 67 | 118. 18 | 100. 50 | 122. 01 | 103. 75 | 119. 81 |
| Tilt azimuth (high res.) | 105. 86 | 101. 24 | 94. 67 | 107. 72 | 118. 22 | 100. 54 | 122. 05 | 103. 79 | 119. 84 |
| Emission angle (deg) | 3. 74 | 3. 65 | 2. 93 | 4. 62 | 5. 89 | 5. 78 | 5. 13 | 5. 73 | 6. 24 |
| Tilt angle (deg) | 1. 40 | 1. 36 | 1. 09 | 1. 72 | 2. 18 | 2. 14 | 1. 90 | 2. 11 | 2. 30 |
| Swing angle (deg) (med. res.) | 270. 24 | 266. 48 | 258. 78 | 272. 32 | 282. 24 | 265. 16 | 285. 69 | 268. 03 | 282. 96 |
| Swing angle (deg) (high res.) | 270. 31 | 266. 55 | 258. 87 | 272. 38 | 282. 28 | 265. 21 | 285. 73 | 268. 07 | 282. 99 |
| North deviation angle (deg) | 342. 41 | 343. 29 | 342. 52 | 342. 22 | 341. 30 | 341. 48 | 341. 36 | 341. 18 | 340. 30 |
| *Photography* | | | | | | | | | |
| Time of exposure (GMT): | | | | | | | | | |
| Year | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| Month | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Day | 19 | 19 | 18 | 18 | 17 | 17 | 16 | 16 | 15 |
| Hour | 18 | 6 | 18 | 6 | 18 | 6 | 18 | 6 | 18 |
| Minute | 24 | 22 | 20 | 18 | 16 | 14 | 13 | 11 | 10 |
| Second (med. res.) | 11. 43 | 12. 43 | 12. 83 | 15. 53 | 25. 53 | 38. 93 | 0. 43 | 30. 63 | 8. 33 |
| Second (high res.) | 11. 31 | 12. 31 | 12. 71 | 15. 41 | 25. 41 | 38. 81 | 0. 31 | 30. 51 | 8. 21 |
| Illumination (deg): | | | | | | | | | |
| Sun angle at nadir | 71. 63 | 71. 33 | 71. 03 | 70. 63 | 70. 29 | 69. 90 | 69. 50 | 69. 10 | 68. 67 |
| Phase angle | 73. 03 | 72. 68 | 72. 10 | 72. 35 | 72. 44 | 72. 01 | 71. 35 | 71. 20 | 70. 94 |
| Sun azimuth at principal ground point | 109. 10 | 109. 53 | 109. 58 | 110. 71 | 111. 27 | 112. 55 | 111. 68 | 113. 35 | 113. 20 |
| Sun arc at nadir | 2170. 53 | 2161. 25 | 2152. 29 | 2140. 02 | 2129. 80 | 2117. 94 | 2105. 92 | 2093. 64 | 2080. 83 |
| Alpha | −3. 74 | −3. 63 | −2. 86 | −4. 62 | −5. 81 | −5. 72 | −5. 01 | −5. 70 | −6. 16 |
| Incidence angle | 69. 29 | 69. 06 | 69. 24 | 67. 72 | 66. 64 | 66. 30 | 66. 34 | 65. 50 | 64. 78 |
| *Photographs* | | | | | | | | | |
| Tilt distance (mm) (film scale): | | | | | | | | | |
| Med. res. | 1. 95 | 1. 90 | 1. 53 | 2. 40 | 3. 05 | 2. 98 | 2. 65 | 2. 95 | 3. 21 |
| High res. | 14. 94 | 14. 55 | 11. 66 | 18. 34 | 23. 30 | 22. 82 | 20. 23 | 22. 55 | 24. 53 |
| Resolution constant (m) | 479. 40 | 481. 06 | 482. 70 | 484. 83 | 487. 00 | 488. 58 | 489. 85 | 491. 30 | 492. 47 |
| Principal ground point: | | | | | | | | | |
| Latitude (deg) | 42. 08 | 42. 28 | 42. 60 | 41. 82 | 40. 98 | 42. 04 | 41. 02 | 41. 83 | 40. 70 |
| Longitude (deg) | −9. 24 | −2. 67 | 3. 35 | 11. 28 | 18. 53 | 25. 73 | 31. 25 | 39. 05 | 45. 57 |
| Slant distance (km) | 2897. 35 | 2907. 36 | 2917. 26 | 2930. 11 | 2943. 28 | 2952. 83 | 2960. 49 | 2969. 28 | 2976. 33 |
| Corner coordinates (med. res.): | | | | | | | | | |
| 1 Latitude (deg) | 24. 61 | 25. 10 | 25. 72 | 20. 79 | 14. 86 | 16. 30 | 17. 26 | 15. 46 | 12. 92 |
| 1 Longitude (deg) | 52. 76 | 60. 36 | 65. 11 | 77. 76 | 86. 44 | 80. 32 | 99. 23 | 93. 85 | 99. 98 |
| 2 Latitude (deg) | 2. 35 | 3. 00 | 4. 33 | −3. 08 | 7. 58 | 9. 07 | −5. 81 | 8. 05 | 4. 28 |
| 2 Longitude (deg) | 30. 78 | 37. 97 | 42. 44 | 55. 14 | 64. 83 | 72. 72 | 78. 02 | 86. 33 | 93. 51 |
| 3 Latitude (deg) | 0. 88 | 1. 44 | 14. 44 | 1. 96 | 1. 82 | 0. 84 | 13. 28 | 2. 04 | 0. 45 |
| 3 Longitude (deg) | −69. 76 | −62. 09 | −50. 69 | −47. 89 | −40. 41 | −33. 73 | −22. 66 | −20. 30 | −15. 76 |
| 4 Latitude (deg) | 55. 12 | 58. 35 | 57. 92 | 56. 42 | 58. 50 | 56. 28 | 57. 54 | 57. 82 | 58. 22 |
| 4 Longitude (deg) | −122. 37 | −88. 63 | −87. 78 | −100. 98 | −95. 47 | −91. 63 | −80. 98 | −74. 42 | −71. 81 |
| Corner coordinates (high res.): | | | | | | | | | |
| 1 Latitude (deg) | 56. 67 | 57. 14 | 57. 36 | 56. 50 | 55. 41 | 56. 67 | 55. 56 | 56. 45 | 55. 03 |
| 1 Longitude (deg) | 8. 92 | 15. 34 | 21. 89 | 29. 78 | 37. 09 | 45. 11 | 49. 84 | 58. 55 | 64. 71 |
| 2 Latitude (deg) | 23. 43 | 23. 58 | 23. 91 | 22. 89 | 21. 77 | 23. 00 | 21. 71 | 22. 65 | 21. 24 |
| 2 Longitude (deg) | −10. 25 | −3. 38 | 2. 33 | 10. 24 | 17. 22 | 24. 49 | 29. 89 | 37. 69 | 43. 90 |
| 3 Latitude (deg) | 25. 77 | 25. 81 | 26. 20 | 25. 33 | 24. 43 | 25. 58 | 24. 34 | 25. 30 | 24. 09 |
| 3 Longitude (deg) | −19. 71 | −12. 90 | −7. 22 | 0. 71 | 7. 71 | 14. 90 | 20. 33 | 28. 08 | 34. 36 |
| 4 Latitude (deg) | 60. 44 | 60. 77 | 61. 20 | 60. 35 | 59. 41 | 60. 72 | 59. 59 | 60. 59 | 59. 28 |
| 4 Longitude (deg) | −6. 62 | −0. 59 | 5. 92 | 14. 13 | 21. 96 | 29. 28 | 34. 59 | 42. 79 | 49. 69 |

*Support Data*—Continued

| 129 | 133 | 137 | 141 | 142 | 143 | 147 | 151 | 155 | 159 | 163 | 167 | 171 | 175 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV–67 | IV–62 | IV–55 | IV–23 | IV–24 | IV–196 | IV–188 | IV–182 | IV–174 | IV–169 | IV–162 | IV–157 | IV–150 | IV–144 |
| 4711. 67 | 4715. 44 | 4718. 22 | 4718. 79 | 4720. 53 | 4411. 66 | 4411. 56 | 4410. 54 | 4409. 20 | 4408. 21 | 4406. 05 | 4404. 95 | 4404. 51 | 4405. 09 |
| 2975. 57 | 2979. 34 | 2982. 12 | 2982. 69 | 2984. 45 | 2675. 56 | 2675. 46 | 2674. 44 | 2673. 10 | 2672. 11 | 2669. 95 | 2668. 85 | 2668. 41 | 2668. 99 |
| 42. 81 | 42. 82 | 42. 84 | 43. 16 | 43. 29 | 13. 88 | 13. 92 | 13. 88 | 13. 91 | 14. 14 | 13. 93 | 13. 91 | 13. 91 | 13. 90 |
| 47. 79 | 54. 52 | 61. 25 | 94. 60 | 94. 62 | −93. 82 | −87. 19 | −80. 57 | −73. 95 | −67. 33 | −60. 75 | −54. 17 | −47. 59 | −41. 01 |
| 0. 18 | 0. 18 | 0. 18 | 0. 17 | 0. 17 | 0. 04 | 0. 04 | 0. 04 | 0. 04 | 0. 04 | 0. 04 | 0. 04 | 0. 04 | 0. 04 |
| 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 |
| 108. 06 | 95. 69 | 101. 97 | 78. 57 | 74. 72 | 224. 93 | 255. 11 | 329. 47 | 255. 17 | 248. 55 | 243. 27 | 255. 11 | 234. 07 | 280. 64 |
| 108. 11 | 95. 74 | 102. 02 | 78. 61 | 74. 76 | 224. 86 | 255. 04 | 329. 42 | 255. 10 | 248. 43 | 243. 18 | 255. 03 | 234. 01 | 280. 42 |
| 4. 77 | 5. 45 | 5. 18 | 5. 13 | 5. 26 | 2. 36 | 3. 37 | 2. 64 | 3. 40 | 1. 99 | 2. 56 | 3. 49 | 3. 38 | 1. 23 |
| 1. 76 | 2. 00 | 1. 91 | 1. 88 | 1. 93 | 0. 93 | 1. 32 | 1. 04 | 1. 34 | 0. 78 | 1. 01 | 1. 37 | 1. 33 | 0. 48 |
| 271. 68 | 260. 01 | 265. 83 | 241. 06 | 237. 19 | 38. 30 | 68. 78 | 143. 49 | 68. 67 | 62. 13 | 57. 10 | 69. 48 | 48. 16 | 94. 59 |
| 71. 73 | 260. 06 | 265. 87 | 241. 10 | 237. 24 | 38. 23 | 68. 70 | 143. 43 | 68. 59 | 62. 01 | 57. 01 | 69. 40 | 48. 10 | 94. 37 |
| 341. 09 | 341. 21 | 340. 99 | 339. 43 | 339. 33 | 353. 59 | 354. 12 | 354. 26 | 353. 95 | 353. 85 | 354. 14 | 354. 84 | 354. 44 | 354. 13 |
| 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 15 | 14 | 14 | 11 | 11 | 25 | 25 | 24 | 24 | 23 | 23 | 22 | 22 | 21 |
| 6 | 18 | 6 | 18 | 18 | 18 | 6 | 18 | 6 | 18 | 6 | 18 | 6 | 17 |
| 9 | 7 | 7 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 1 | 0 | 58 |
| 0. 93 | 59. 03 | 6. 63 | 53. 93 | 4. 03 | 30. 93 | 8. 73 | 41. 83 | 17. 83 | 2. 13 | 7. 63 | 16. 23 | 11. 93 | 53. 73 |
| 0. 81 | 58. 91 | 6. 51 | 53. 81 | 3. 91 | 30. 81 | 8. 61 | 41. 71 | 17. 71 | 2. 01 | 7. 51 | 16. 11 | 11. 81 | 53. 61 |
| 68. 28 | 67. 88 | 67. 48 | 65. 81 | 65. 85 | 74. 06 | 73. 55 | 73. 04 | 72. 54 | 72. 04 | 71. 57 | 71. 10 | 70. 64 | 70. 19 |
| 70. 03 | 69. 80 | 69. 36 | 67. 34 | 67. 34 | 73. 44 | 72. 29 | 72. 46 | 71. 27 | 71. 34 | 70. 71 | 69. 80 | 69. 63 | 69. 71 |
| 113. 64 | 115. 04 | 115. 15 | 118. 29 | 118. 53 | 92. 70 | 92. 74 | 93. 72 | 93. 02 | 93. 49 | 93. 42 | 93. 43 | 93. 45 | 94. 27 |
| 2068. 94 | 2056. 66 | 2044. 69 | 1994. 09 | 1995. 34 | 2244. 12 | 2228. 74 | 2213. 13 | 2197. 99 | 2182. 99 | 2168. 67 | 2154. 48 | 2140. 55 | 2126. 82 |
| −4. 77 | −5. 25 | −5. 11 | −4. 19 | −4. 08 | 1. 57 | 3. 19 | 1. 47 | 3. 22 | 1. 80 | 2. 20 | 3. 30 | 2. 57 | 1. 22 |
| 65. 27 | 64. 57 | 64. 25 | 63. 19 | 63. 31 | 75. 02 | 75. 48 | 73. 94 | 74. 49 | 73. 14 | 72. 91 | 73. 10 | 72. 21 | 70. 93 |
| 2. 45 | 2. 70 | 2. 66 | 2. 63 | 2. 69 | 1. 30 | 1. 85 | 1. 45 | 1. 86 | 1. 09 | 1. 41 | 1. 92 | 1. 86 | 0. 67 |
| 18. 74 | 21. 35 | 20. 32 | 20. 09 | 20. 59 | 9. 93 | 14. 12 | 11. 07 | 14. 26 | 8. 37 | 10. 76 | 14. 67 | 14. 22 | 5. 16 |
| 492. 97 | 493. 79 | 494. 17 | 494. 25 | 494. 58 | 442. 85 | 442. 99 | 442. 71 | 442. 60 | 442. 24 | 441. 95 | 441. 92 | 441. 82 | 441. 66 |
| 41. 81 | 42. 38 | 42. 08 | 43. 72 | 44. 08 | 12. 86 | 13. 39 | 15. 26 | 13. 37 | 13. 70 | 13. 23 | 13. 36 | 12. 70 | 14. 04 |
| 51. 64 | 59. 16 | 65. 57 | 99. 00 | 99. 09 | −94. 86 | −89. 22 | −81. 41 | −76. 00 | −68. 48 | −62. 17 | −56. 27 | −49. 29 | −41. 76 |
| 2979. 38 | 2984. 30 | 2986. 61 | 2987. 09 | 2989. 07 | 2676. 46 | 2677. 28 | 2675. 56 | 2674. 95 | 2672. 75 | 2671. 00 | 2670. 81 | 2670. 24 | 2669. 23 |
| 16. 20 | 16. 19 | 16. 17 | 17. 71 | 17. 97 | 35. 02 | 37. 53 | 35. 21 | 37. 33 | 35. 75 | 36. 42 | 38. 61 | 37. 22 | 34. 78 |
| 120. 42 | 114. 25 | 119. 73 | 152. 48 | 152. 76 | −25. 58 | −19. 93 | −13. 63 | −7. 87 | 2. 91 | 6. 59 | 15. 62 | 18. 88 | 24. 15 |
| −6. 26 | −5. 03 | −5. 35 | −1. 43 | −0. 45 | −29. 90 | −32. 26 | −31. 26 | −32. 03 | −30. 90 | −30. 90 | −32. 52 | −31. 16 | −30. 02 |
| 98. 50 | 107. 79 | 113. 57 | 141. 28 | 140. 95 | −47. 59 | −41. 71 | −32. 70 | −29. 15 | −20. 42 | −14. 49 | −7. 76 | −1. 37 | 6. 27 |
| 14. 48 | 2. 24 | 2. 44 | 4. 01 | 3. 06 | −13. 02 | −14. 41 | −17. 46 | −14. 28 | −11. 75 | −13. 43 | −15. 16 | −16. 63 | −10. 07 |
| −2. 58 | −0. 80 | 5. 06 | 36. 94 | 36. 02 | −145. 29 | −145. 19 | −136. 72 | −132. 01 | −117. 74 | −113. 63 | −112. 41 | −106. 54 | −88. 05 |
| 59. 88 | 60. 08 | 60. 12 | 59. 62 | 59. 12 | 42. 51 | 36. 92 | 39. 74 | 37. 02 | 37. 13 | 36. 42 | 36. 28 | 35. 43 | 37. 58 |
| −35. 86 | −30. 30 | −22. 95 | −2. 22 | −4. 81 | −162. 97 | −146. 18 | −141. 40 | −132. 80 | −121. 00 | −114. 77 | −113. 35 | −101. 35 | −94. 44 |
| 56. 44 | 57. 13 | 56. 74 | 58. 12 | 58. 49 | 28. 52 | 29. 16 | 31. 37 | 29. 11 | 29. 44 | 28. 95 | 29. 17 | 28. 38 | 29. 89 |
| 71. 08 | 79. 17 | 85. 40 | 120. 68 | 121. 12 | −88. 28 | −82. 83 | −74. 76 | −69. 57 | −61. 93 | −55. 78 | −50. 12 | −43. 06 | −35. 22 |
| 22. 55 | 23. 20 | 22. 82 | 24. 78 | 25. 18 | −4. 22 | −3. 56 | −1. 38 | −3. 57 | −3. 23 | −3. 72 | −3. 52 | −4. 32 | −2. 76 |
| 50. 19 | 57. 81 | 64. 12 | 96. 97 | 97. 02 | −92. 67 | −86. 95 | −79. 05 | −73. 78 | −66. 24 | −59. 86 | −53. 80 | −46. 90 | −39. 42 |
| 25. 18 | 25. 81 | 25. 47 | 27. 51 | 27. 91 | −3. 37 | −2. 85 | −0. 63 | −2. 84 | −2. 44 | −2. 98 | −2. 91 | −3. 64 | −1. 99 |
| 40. 56 | 48. 12 | 54. 45 | 87. 26 | 87. 28 | −100. 89 | −95. 17 | −87. 15 | −82. 00 | −74. 42 | −68. 06 | −62. 01 | −55. 13 | −47. 55 |
| 60. 62 | 61. 34 | 60. 98 | 62. 82 | 63. 24 | 29. 57 | 30. 17 | 32. 36 | 30. 15 | 30. 46 | 29. 93 | 30. 06 | 29. 31 | 30. 87 |
| 55. 34 | 63. 00 | 69. 46 | 104. 31 | 104. 58 | −97. 52 | −92. 16 | −84. 40 | −78. 88 | −71. 26 | −65. 05 | −59. 45 | −52. 26 | −44. 62 |

TABLE 2.—*Photographic*

| Plate number | 179 | 183 | 187 | 191 | 195 | 199 | 203 | 207 | 211 |
|---|---|---|---|---|---|---|---|---|---|
| Frame number | IV–138 | IV–133 | IV–126 | IV–121 | IV–114 | IV–109 | IV–102 | IV–97 | IV–90 |
| *Spacecraft* | | | | | | | | | |
| Position: | | | | | | | | | |
| Spacecraft radius (km) | 4406. 80 | 4409. 56 | 4413. 38 | 4417. 92 | 4423. 31 | 4429. 14 | 4435. 24 | 4441. 39 | 4447. 37 |
| Spacecraft altitude (km) | 2670. 70 | 2673. 46 | 2677. 28 | 2681. 82 | 2687. 21 | 2693. 04 | 2699. 14 | 2705. 29 | 2711. 27 |
| Latitude of nadir point (deg) | 13. 92 | 13. 91 | 13. 94 | 13. 87 | 13. 89 | 13. 89 | 13. 89 | 13. 90 | 13. 89 |
| Longitude of nadir point (deg) | −34. 43 | −27. 86 | −21. 27 | −14. 69 | −8. 09 | 1. 48 | 5. 14 | 11. 76 | 18. 39 |
| Orientation: | | | | | | | | | |
| Mean altitude rate (km/sec) | 0. 04 | 0. 04 | 0. 04 | 0. 05 | 0. 05 | 0. 05 | 0. 05 | 0. 06 | 0. 06 |
| Horizontal velocity (km/sec) | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 | 1. 19 |
| Tilt azimuth (med. res.) | 263. 91 | 340. 21 | 238. 44 | 268. 51 | 261. 82 | 267. 45 | 237. 94 | 245. 90 | 267. 03 |
| Tilt azimuth (high res.) | 263. 83 | 340. 20 | 238. 37 | 268. 43 | 261. 77 | 267. 37 | 237. 86 | 245. 83 | 266. 96 |
| Emission angle (deg) | 3. 25 | 8. 45 | 3. 35 | 3. 37 | 4. 66 | 3. 35 | 2. 85 | 3. 68 | 4. 03 |
| Tilt angle (deg) | 1. 28 | 3. 32 | 1. 32 | 1. 32 | 1. 83 | 1. 31 | 1. 11 | 1. 44 | 1. 57 |
| Swing angle (deg) (med. res.) | 78. 49 | 156. 02 | 53. 02 | 82. 79 | 76. 72 | 81. 98 | 52. 85 | 60. 27 | 82. 03 |
| Swing angle (deg) (high res.) | 78. 41 | 156. 00 | 52. 95 | 82. 71 | 76. 67 | 81. 90 | 52. 77 | 60. 21 | 81. 96 |
| North deviation angle (deg) | 355. 05 | 356. 53 | 354. 95 | 354. 78 | 355. 56 | 355. 02 | 355. 23 | 354. 82 | 355. 59 |
| *Photography* | | | | | | | | | |
| Time of exposure (GMT): | | | | | | | | | |
| Year | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| Month | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Day | 21 | 20 | 20 | 19 | 19 | 18 | 18 | 17 | 17 |
| Hour | 5 | 17 | 5 | 17 | 5 | 17 | 5 | 17 | 5 |
| Minute | 57 | 55 | 53 | 51 | 49 | 47 | 45 | 43 | 41 |
| Second (med. res.) | 23. 93 | 39. 83 | 47. 83 | 42. 93 | 38. 33 | 31. 83 | 27. 43 | 28. 13 | 34. 73 |
| Second (high res.) | 23. 81 | 39. 71 | 47. 71 | 42. 81 | 38. 21 | 31. 71 | 27. 31 | 28. 01 | 34. 61 |
| Illumination (deg): | | | | | | | | | |
| Sun angle at nadir | 69. 74 | 69. 29 | 68. 84 | 68. 39 | 67. 92 | 67. 46 | 66. 97 | 66. 49 | 66. 00 |
| Phase angle | 68. 48 | 67. 95 | 67. 78 | 67. 07 | 66. 15 | 66. 16 | 66. 09 | 65. 25 | 64. 44 |
| Sun azimuth at principal ground point | 93. 97 | 95. 86 | 94. 02 | 94. 41 | 94. 23 | 94. 69 | 94. 68 | 94. 67 | 95. 02 |
| Sun arc at nadir | 2113. 17 | 2099. 57 | 2085. 89 | 2072. 12 | 2058. 05 | 2043. 95 | 2029. 33 | 2014. 83 | 1999. 80 |
| Alpha | 3. 20 | 3. 37 | 2. 68 | 3. 35 | 4. 53 | 3. 32 | 2. 25 | 3. 19 | 3. 98 |
| Incidence angle | 71. 68 | 71. 49 | 70. 48 | 70. 42 | 70. 68 | 69. 47 | 68. 35 | 68. 45 | 68. 43 |
| *Photographs* | | | | | | | | | |
| Tilt distance (mm) (film scale): | | | | | | | | | |
| Med. res. | 1. 79 | 4. 63 | 1. 83 | 1. 85 | 2. 55 | 1. 83 | 1. 55 | 2. 01 | 2. 19 |
| High res. | 13. 67 | 35. 40 | 14. 04 | 14. 11 | 19. 47 | 13. 98 | 11. 90 | 15. 35 | 16. 77 |
| Resolution constant (m) | 442. 18 | 444. 26 | 443. 29 | 444. 04 | 445. 21 | 445. 90 | 446. 82 | 447. 99 | 449. 05 |
| Principal ground point: | | | | | | | | | |
| Latitude (deg) | 13. 71 | 18. 74 | 12. 87 | 13. 81 | 13. 47 | 13. 79 | 12. 96 | 12. 98 | 13. 75 |
| Longitude (deg) | −36. 45 | −29. 69 | −23. 05 | −16. 79 | −10. 97 | −3. 58 | 3. 63 | 9. 66 | 15. 87 |
| Slant distance (km) | 2672. 40 | 2684. 93 | 2679. 08 | 2683. 64 | 2690. 69 | 2694. 84 | 2700. 44 | 2707. 47 | 2713. 89 |
| Corner coordinates (med. res.): | | | | | | | | | |
| 1 Latitude (deg) | 38. 39 | 36. 58 | 37. 51 | 37. 98 | 39. 39 | 38. 28 | 36. 82 | 37. 81 | 39. 30 |
| 1 Longitude (deg) | 32. 42 | 28. 68 | 43. 74 | 51. 04 | 53. 51 | 67. 53 | 70. 28 | 79. 09 | 86. 85 |
| 2 Latitude (deg) | −32. 05 | −30. 39 | −32. 16 | −31. 40 | −31. 42 | −30. 63 | −30. 37 | −31. 18 | −31. 59 |
| 2 Longitude (deg) | 11. 83 | 16. 03 | 26. 92 | 30. 21 | 35. 43 | 43. 26 | 53. 03 | 57. 81 | 63. 97 |
| 3 Latitude (deg) | −15. 22 | −16. 58 | −16. 12 | −14. 71 | −13. 72 | −14. 72 | −16. 31 | −14. 67 | −13. 99 |
| 3 Longitude (deg) | −92. 02 | −84. 20 | −79. 19 | −72. 94 | −69. 00 | −59. 75 | −51. 89 | −47. 21 | −41. 47 |
| 4 Latitude (deg) | 36. 68 | 32. 27 | −35. 38 | 37. 27 | 34. 91 | 37. 12 | 35. 50 | 36. 00 | 35. 44 |
| 4 Longitude (deg) | −95. 12 | −84. 07 | −76. 65 | −78. 72 | −75. 77 | −66. 86 | −50. 68 | −48. 57 | −51. 98 |
| Corner coordinates (high res.): | | | | | | | | | |
| 1 Latitude (deg) | 29. 59 | 35. 88 | 28. 67 | 29. 76 | 29. 47 | 29. 83 | 28. 96 | 28. 96 | 29. 96 |
| 1 Longitude (deg) | −30. 33 | −23. 41 | −16. 94 | −10. 55 | −5. 05 | 2. 62 | 9. 74 | 15. 87 | 21. 89 |
| 2 Latitude (deg) | −3. 11 | 2. 55 | −4. 16 | −3. 07 | −3. 47 | −3. 16 | −4. 18 | −4. 22 | −3. 30 |
| 2 Longitude (deg) | −33. 92 | −26. 79 | −20. 51 | −14. 34 | −8. 33 | −1. 04 | 6. 29 | 12. 16 | 18. 56 |
| 3 Latitude (deg) | −2. 53 | 2. 98 | −3. 55 | −2. 45 | −3. 00 | −2. 57 | −3. 59 | −3. 60 | −2. 81 |
| 3 Longitude (deg) | −42. 12 | −34. 80 | −28. 77 | −22. 56 | −16. 63 | −9. 31 | −2. 03 | 3. 81 | 10. 21 |
| 4 Latitude (deg) | 30. 47 | 36. 67 | 29. 53 | 30. 69 | 30. 30 | 30. 73 | 29. 77 | 29. 86 | 30. 78 |
| 4 Longitude (deg) | −39. 72 | −33. 88 | −26. 22 | −20. 00 | −14. 50 | −6. 88 | 0. 35 | 6. 45 | 12. 30 |

*Support Data*—Continued

| 215 | 219 | 223 | 227 | 231 | 235 | 239 | 240 | 243 | 247 | 251 | 255 | 259 | 263 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV–85 | IV–78 | IV–73 | IV–66 | IV–61 | IV–54 | IV–17 | IV–18 | IV–195 | IV–187 | IV–181 | IV–173 | IV–168 | IV–161 |
| 4453. 00 | 4458. 18 | 4462. 63 | 4466. 84 | 4470. 11 | 4472. 76 | 4475. 18 | 4475. 77 | 4457. 54 | 4458. 89 | 4460. 08 | 4460. 13 | 4458. 28 | 4458. 76 |
| 2716. 90 | 2722. 08 | 2726. 53 | 2730. 74 | 2734. 01 | 2736. 66 | 2739. 08 | 2739. 67 | 2721. 44 | 2722. 79 | 2723. 98 | 2724. 03 | 2722. 18 | 2722. 66 |
| 13. 89 | 13. 87 | 13. 82 | 13. 87 | 13. 87 | 13. 89 | 13. 89 | 14. 04 | −14. 40 | −14. 36 | −14. 40 | −14. 37 | −14. 14 | −14. 36 |
| 25. 04 | 31. 68 | 38. 33 | 44. 98 | 51. 63 | 58. 29 | 91. 45 | 91. 46 | −96. 11 | −89. 49 | −82. 86 | −76. 23 | −69. 56 | −62. 94 |
| 0. 06 | 0. 06 | 0. 06 | 0. 06 | 0. 06 | 0. 06 | 0. 06 | 0. 06 | −0. 09 | −0. 09 | −0. 09 | −0. 09 | −0. 09 | −0. 09 |
| 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 |
| 230. 38 | 248. 64 | 209. 42 | 258. 39 | 278. 46 | 259. 32 | 290. 20 | 302. 07 | 109. 31 | 145. 67 | 26. 83 | 116. 46 | 103. 01 | 129. 75 |
| 230. 29 | 248. 54 | 209. 38 | 258. 31 | 278. 38 | 259. 22 | 290. 04 | 301. 94 | 109. 41 | 145. 81 | 26. 87 | 116. 64 | 103. 13 | 129. 87 |
| 2. 28 | 2. 51 | 2. 41 | 3. 15 | 3. 11 | 2. 57 | 1. 70 | 1. 85 | 2. 52 | 1. 20 | 2. 40 | 1. 45 | 2. 26 | 1. 96 |
| 0. 89 | 0. 98 | 0. 94 | 1. 23 | 1. 21 | 1. 00 | 0. 66 | 0. 72 | 0. 98 | 0. 47 | 0. 93 | 0. 56 | 0. 88 | 0. 76 |
| 44. 37 | 63. 28 | 23. 22 | 72. 52 | 93. 64 | 73. 67 | 104. 11 | 115. 98 | 294. 12 | 330. 26 | 212. 05 | 301. 26 | 287. 94 | 314. 71 |
| 44. 29 | 63. 19 | 23. 17 | 72. 44 | 93. 56 | 73. 57 | 103. 96 | 115. 85 | 294. 22 | 330. 40 | 212. 10 | 301. 44 | 288. 07 | 314. 83 |
| 354. 22 | 354. 97 | 353. 94 | 354. 57 | 355. 66 | 354. 72 | 354. 17 | 354. 17 | 5. 21 | 4. 70 | 5. 37 | 5. 01 | 5. 29 | 5. 22 |
| 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 16 | 16 | 15 | 15 | 14 | 14 | 11 | 11 | 25 | 25 | 24 | 24 | 23 | 23 |
| 17 | 5 | 17 | 5 | 17 | 5 | 17 | 17 | 17 | 5 | 17 | 5 | 17 | 5 |
| 39 | 38 | 36 | 35 | 34 | 33 | 29 | 30 | 33 | 33 | 33 | 32 | 32 | 31 |
| 49. 83 | 13. 43 | 45. 83 | 33. 63 | 28. 33 | 33. 13 | 56. 73 | 6. 83 | 56. 43 | 33. 63 | 6. 83 | 43. 23 | 28. 93 | 34. 23 |
| 49. 71 | 13. 31 | 45. 7[illegible] | 33. 51 | 28. 21 | 33. 01 | 56. 61 | 6. 71 | 56. 31 | 33. 51 | 6. 71 | 43. 11 | 28. 81 | 34. 11 |
| 65. 50 | 65. 00 | 64. 49 | 63. 98 | 63. 48 | 62. 97 | 60. 53 | 60. 54 | 76. 94 | 76. 42 | 75. 91 | 75. 38 | 74. 81 | 74. 32 |
| 64. 88 | 64. 13 | 64. 12 | 62. 82 | 62. 27 | 62. 02 | 59. 89 | 59. 89 | 77. 84 | 76. 66 | 76. 40 | 75. 87 | 75. 65 | 74. 86 |
| 95. 24 | 95. 43 | 95. 44 | 95. 70 | 96. 16 | 96. 18 | 97. 50 | 97. 73 | 85. 25 | 85. 40 | 85. 69 | 85. 08 | 84. 87 | 84. 66 |
| 1984. 69 | 1969. 45 | 1954. 00 | 1938. 73 | 1923. 34 | 1907. 98 | 1834. 12 | 1834. 32 | 2331. 21 | 2315. 64 | 2300. 21 | 2284. 18 | 2266. 78 | 2251. 82 |
| 1. 59 | 2. 22 | 0. 93 | 3. 00 | 3. 10 | 2. 45 | 1. 66 | 1. 68 | −2. 31 | −0. 60 | −1. 25 | −1. 24 | −2. 15 | −1. 40 |
| 66. 48 | 66. 36 | 65. 07 | 65. 82 | 65. 37 | 64. 47 | 61. 55 | 61. 57 | 75. 52 | 76. 06 | 75. 16 | 74. 63 | 73. 50 | 73. 46 |
| 1. 24 | 1. 36 | 1. 31 | 1. 71 | 1. 68 | 1. 39 | 0. 92 | 1. 00 | 1. 37 | 0. 65 | 1. 30 | 0. 79 | 1. 22 | 1. 07 |
| 9. 47 | 10. 43 | 10. 00 | 13. 07 | 12. 85 | 10. 64 | 7. 04 | 7. 62 | 10. 48 | 4. 99 | 9. 93 | 6. 02 | 9. 37 | 8. 16 |
| 449. 68 | 450. 57 | 451. 29 | 452. 10 | 452. 63 | 452. 99 | 453. 29 | 453. 40 | 450. 47 | 450. 56 | 450. 87 | 450. 78 | 450. 55 | 450. 60 |
| 13. 00 | 13. 30 | 12. 54 | 13. 47 | 14. 14 | 13. 60 | 14. 25 | 14. 64 | −14. 91 | −14. 96 | −13. 09 | −14. 76 | −14. 44 | −15. 13 |
| 23. 94 | 30. 21 | 37. 59 | 43. 04 | 49. 69 | 56. 70 | 90. 44 | 90. 47 | −94. 60 | −89. 06 | −82. 18 | −75. 41 | −68. 18 | −61. 98 |
| 2717. 73 | 2723. 10 | 2727. 47 | 2732. 35 | 2735. 57 | 2737. 73 | 2739. 55 | 2740. 22 | 2722. 47 | 2723. 02 | 2724. 90 | 2724. 37 | 2723. 00 | 2723. 29 |
| 34. 87 | 36. 43 | 33. 63 | 36. 76 | 37. 50 | 35. 84 | 34. 33 | 34. 36 | 18. 87 | 16. 37 | 23. 81 | 17. 74 | 19. 49 | 17. 07 |
| 91. 80 | 100. 67 | 105. 37 | 112. 20 | 117. 59 | 123. 59 | 159. 29 | 159. 62 | −48. 90 | −47. 23 | −33. 15 | −32. 04 | −22. 34 | −19. 14 |
| −18. 84 | −30. 07 | −20. 88 | −30. 49 | −30. 29 | −30. 69 | −29. 76 | −29. 65 | −29. 42 | −30. 50 | −27. 53 | −29. 95 | −29. 33 | −30. 22 |
| 63. 86 | 79. 42 | 79. 48 | 90. 82 | 98. 46 | 106. 20 | 139. 38 | 139. 23 | −28. 63 | −31. 38 | −28. 34 | −16. 00 | −4. 06 | 0. 17 |
| −14. 93 | −15. 63 | −15. 09 | −14. 54 | −15. 31 | −14. 98 | −11. 76 | −11. 07 | −45. 12 | −37. 86 | −44. 82 | −44. 16 | −45. 40 | −38. 37 |
| −29. 76 | −25. 40 | −15. 53 | −14. 49 | −7. 50 | 0. 39 | 39. 92 | 40. 60 | −160. 95 | −142. 22 | −151. 68 | −147. 00 | −137. 38 | −113. 73 |
| 36. 39 | 36. 46 | 41. 94 | 37. 26 | 36. 15 | 37. 28 | 38. 71 | 39. 21 | 23. 32 | 20. 27 | 12. 19 | 20. 32 | 21. 63 | 22. 04 |
| −29. 37 | −26. 99 | −30. 39 | −20. 67 | −15. 48 | −4. 46 | 29. 69 | 27. 68 | −150. 47 | −143. 49 | −127. 98 | −128. 96 | −121. 85 | −118. 04 |
| 29. 01 | 29. 46 | 28. 53 | 29. 66 | 30. 57 | 29. 86 | 30. 57 | 31. 01 | 2. 18 | 2. 07 | 4. 35 | 2. 34 | 2. 68 | 1. 91 |
| 30. 45 | 36. 50 | 44. 20 | 49. 46 | 55. 85 | 63. 13 | 97. 18 | 97. 25 | −91. 85 | −86. 24 | −79. 51 | −72. 65 | −65. 46 | −59. 28 |
| −4. 30 | −3. 93 | −4. 93 | −3. 81 | −2. 98 | −3. 70 | −2. 98 | −2. 55 | −31. 31 | −31. 41 | −29. 18 | −31. 16 | −30. 80 | −31. 57 |
| 26. 34 | 32. 81 | 39. 95 | 45. 49 | 52. 46 | 59. 22 | 92. 83 | 92. 86 | −87. 80 | −82. 53 | −75. 63 | −68. 76 | −61. 40 | −55. 21 |
| −3. 54 | −3. 30 | −4. 10 | 3. 14 | −2. 46 | −3. 03 | −2. 20 | −1. 78 | −32. 10 | −32. 17 | −30. 01 | −31. 95 | −31. 61 | −32. 39 |
| 17. 99 | 24. 45 | 31. 55 | 37. 10 | 44. 09 | 50. 82 | 84. 48 | 84. 53 | −97. 60 | −92. 33 | −85. 11 | −78. 53 | −71. 14 | −65. 04 |
| 29. 97 | 30. 34 | 29. 52 | 30. 62 | 31. 38 | 30. 79 | 31. 59 | 32. 03 | 1. 39 | 1. 40 | 3. 54 | 1. 60 | 1. 88 | 1. 15 |
| 21. 01 | 26. 97 | 34. 79 | 39. 87 | 46. 10 | 53. 49 | 87. 44 | 87. 45 | −100. 13 | −94. 52 | −87. 89 | −80. 94 | −73. 74 | −67. 55 |

TABLE 2.—*Photographic*

| Plate number | 267 | 271 | 275 | 279 | 283 | 287 | 291 | 295 | 299 |
|---|---|---|---|---|---|---|---|---|---|
| Frame number | IV–156 | IV–149 | IV–143 | IV–137 | IV–132 | IV–125 | IV–120 | IV–113 | IV–108 |
| *Spacecraft* | | | | | | | | | |
| Position: | | | | | | | | | |
| Spacecraft radius (km) | 4457. 67 | 4456. 36 | 4455. 19 | 4454. 10 | 4453. 48 | 4453. 06 | 4453. 59 | 4454. 11 | 4455. 10 |
| Spacecraft altitude (km) | 2721. 57 | 2720. 26 | 2719. 09 | 2718. 00 | 2717. 38 | 2716. 96 | 2717. 49 | 2718. 01 | 2719. 00 |
| Latitude of nadir point (deg) | −14. 39 | −14. 40 | −14. 41 | −14. 40 | −14. 42 | −14. 40 | −14. 46 | −14. 45 | −14. 45 |
| Longitude of nadir point (deg) | −56. 29 | −49. 64 | −42. 98 | −36. 34 | −29. 69 | −23. 06 | −16. 43 | −9. 81 | −3. 17 |
| Orientation: | | | | | | | | | |
| Mean altitude rate (km/sec) | −0. 09 | −0. 09 | −0. 09 | −0. 09 | −0. 09 | −0. 09 | −0. 08 | −0. 08 | −0. 08 |
| Horizontal velocity (km/sec) | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 |
| Tilt azimuth (med. res.) | 135. 84 | 127. 65 | 85. 68 | 119. 40 | 1. 12 | 170. 53 | 77. 15 | 123. 33 | 76. 79 |
| Tilt azimuth (high res.) | 136. 02 | 127. 78 | 85. 79 | 119. 53 | 1. 12 | 170. 61 | 77. 36 | 123. 75 | 77. 00 |
| Emission angle (deg) | 1. 10 | 1. 75 | 2. 50 | 1. 91 | 8. 63 | 0. 82 | 1. 28 | 0. 56 | 1. 32 |
| Tilt angle (deg) | 0. 43 | 0. 68 | 0. 98 | 0. 74 | 3. 35 | 0. 32 | 0. 50 | 0. 22 | 0. 52 |
| Swing angle (deg) (med. res.) | 321. 19 | 312. 82 | 271. 05 | 304. 90 | 188. 01 | 356. 09 | 262. 78 | 309. 15 | 262. 30 |
| Swing angle (deg) (high res.) | 321. 38 | 312. 96 | 271. 16 | 305. 02 | 188. 01 | 356. 17 | 262. 99 | 309. 56 | 262. 50 |
| North deviation angle (deg) | 5. 48 | 5. 41 | 5. 76 | 5. 77 | 6. 90 | 5. 58 | 5. 82 | 5. 89 | 5. 71 |
| *Photography* | | | | | | | | | |
| Time of exposure (GMT): | | | | | | | | | |
| Year | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| Month | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Day | 22 | 22 | 21 | 21 | 20 | 20 | 19 | 19 | 18 |
| Hour | 17 | 5 | 17 | 5 | 17 | 5 | 17 | 5 | 17 |
| Minute | 30 | 29 | 28 | 26 | 25 | 23 | 21 | 19 | 16 |
| Second (med. res.) | 43. 23 | 39. 63 | 21. 73 | 51. 33 | 6. 83 | 13. 53 | 6. 83 | 0. 13 | 51. 13 |
| Second (high res.) | 43. 11 | 39. 51 | 21. 61 | 51. 21 | 6. 71 | 13. 41 | 6. 71 | 0. 01 | 51. 01 |
| Illumination (deg.): | | | | | | | | | |
| Sun angle at nadir | 73. 78 | 73. 24 | 72. 71 | 72. 18 | 71. 67 | 71. 15 | 70. 66 | 70. 17 | 69. 66 |
| Phase angle | 74. 05 | 73. 75 | 73. 69 | 72. 80 | 72. 09 | 71. 17 | 71. 16 | 70. 34 | 70. 18 |
| Sun azimuth at principal ground point | 84. 73 | 84. 43 | 84. 34 | 84. 12 | 86. 22 | 84. 15 | 84. 03 | 83. 92 | 83. 78 |
| Sun arc at nadir | 2235. 57 | 2219. 37 | 2203. 25 | 2187. 22 | 2171. 51 | 2155. 98 | 2141. 11 | 2126. 13 | 2110. 88 |
| Alpha | −0. 70 | −1. 29 | −2. 50 | −1. 57 | −1. 17 | −0. 06 | −1. 27 | −0. 43 | −1. 31 |
| Incidence angle | 73. 36 | 72. 46 | 71. 18 | 71. 23 | 71. 13 | 71. 12 | 69. 89 | 69. 90 | 68. 86 |
| *Photographs* | | | | | | | | | |
| Tilt distance (mm) (film scale): | | | | | | | | | |
| Med. res. | 0. 60 | 0. 95 | 1. 36 | 1. 04 | 4. 68 | 0. 45 | 0. 70 | 0. 31 | 0. 72 |
| High res. | 4. 59 | 7. 27 | 10. 40 | 7. 94 | 35. 78 | 3. 42 | 5. 33 | 2. 34 | 5. 49 |
| Resolution constant (m) | 450. 35 | 450. 18 | 450. 07 | 449. 82 | 451. 62 | 449. 57 | 449. 69 | 449. 74 | 449. 94 |
| Principal ground point: | | | | | | | | | |
| Latitude (deg) | −14. 87 | −15. 05 | −14. 29 | −14. 97 | −9. 14 | −14. 89 | −14. 28 | −14. 63 | −14. 26 |
| Longitude (deg) | −55. 80 | −48. 76 | −41. 41 | −35. 28 | −29. 59 | −22. 97 | −15. 64 | −9. 51 | −2. 36 |
| Slant distance (km) | 2721. 77 | 2720. 76 | 2720. 10 | 2718. 59 | 2729. 42 | 2717. 07 | 2717. 75 | 2718. 06 | 2719. 29 |
| Corner coordinates (med. res.): | | | | | | | | | |
| 1 Latitude (deg) | 17. 17 | 17. 27 | 21. 80 | 17. 93 | 15. 52 | 29. 29 | 19. 57 | 17. 75 | 19. 64 |
| 1 Longitude (deg) | −14. 04 | −6. 15 | 7. 04 | 7. 80 | 12. 11 | 29. 47 | 28. 30 | 31. 90 | 41. 86 |
| 2 Latitude (deg) | −29. 72 | −29. 94 | −28. 47 | −29. 50 | −30. 68 | −29. 66 | −28. 60 | −29. 05 | −28. 67 |
| 2 Longitude (deg) | 1. 73 | 11. 87 | 21. 94 | 26. 24 | 35. 60 | 32. 38 | 41. 27 | 46. 05 | 54. 72 |
| 3 Latitude (deg) | −38. 27 | −38. 37 | −46. 57 | −44. 96 | −47. 16 | −38. 44 | −44. 61 | −38. 18 | −44. 48 |
| 3 Longitude (deg) | −108. 18 | −100. 29 | −111. 20 | −102. 74 | −97. 58 | −76. 65 | −81. 61 | −61. 39 | −68. 10 |
| 4 Latitude (deg) | 19. 88 | 20. 99 | 22. 21 | 21. 58 | 18. 72 | 19. 15 | 21. 37 | 19. 21 | 21. 53 |
| 4 Longitude (deg) | −110. 72 | −103. 69 | −96. 11 | −91. 04 | −85. 16 | −78. 42 | −72. 26 | −64. 75 | −58. 99 |
| Corner coordinates (high res.): | | | | | | | | | |
| 1 Latitude (deg) | 2. 21 | 2. 00 | 2. 91 | 2. 09 | 9. 42 | 2. 16 | 2. 91 | 2. 49 | 2. 94 |
| 1 Longitude (deg) | −53. 21 | −46. 12 | −38. 81 | −32. 74 | −27. 33 | −20. 44 | −13. 12 | −7. 06 | 0. 20 |
| 2 Latitude (deg) | −31. 21 | −31. 42 | −30. 51 | −31. 29 | −24. 65 | −31. 17 | −30. 45 | −30. 84 | −30. 45 |
| 2 Longitude (deg) | −49. 03 | −41. 95 | −34. 51 | −28. 35 | −23. 00 | −16. 22 | −8. 81 | −2. 67 | 4. 44 |
| 3 Latitude (deg) | −32. 09 | −32. 28 | −31. 39 | −32. 19 | −25. 69 | −32. 09 | −31. 37 | −31. 80 | −31. 35 |
| 3 Longitude (deg) | −58. 79 | −51. 75 | −44. 18 | −38. 12 | −31. 89 | −25. 95 | −18. 45 | −12. 36 | −5. 21 |
| 4 Latitude (deg) | 1. 42 | 1. 21 | 2. 02 | 1. 24 | 8. 32 | 1. 38 | 2. 05 | 1. 65 | 2. 09 |
| 4 Longitude (deg) | −61. 48 | −54. 38 | −47. 10 | −40. 99 | −35. 99 | −28. 70 | −21. 41 | −15. 33 | −8. 10 |

*Support Data*—Continued

| 303 | 307 | 311 | 315 | 319 | 323 | 327 | 331 | 335 | 339 | 344 | 348 | 351 | 355 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV–101 | IV–96 | IV–89 | IV–84 | IV–77 | IV–72 | IV–65 | IV–60 | IV–53 | IV–46 | IV–39 | IV–27 | IV–94 | IV–186 |
| 4456. 53 | 4458. 35 | 4460. 50 | 4462. 88 | 4465. 64 | 4468. 52 | 4471. 16 | 4473. 86 | 4476. 32 | 4478. 70 | 4480. 67 | 4483. 27 | 4738. 89 | 4741. 62 |
| 2720. 43 | 2722. 25 | 2724. 40 | 2726. 78 | 2729. 54 | 2732. 42 | 2735. 06 | 2737. 76 | 2740. 22 | 2742. 60 | 2744. 57 | 2747. 17 | 3002. 79 | 3005. 57 |
| −14. 45 | −14. 45 | −14. 45 | −14. 45 | −14. 46 | −14. 50 | −14. 44 | −14. 43 | −14. 41 | −14. 40 | −14. 39 | −14. 34 | −42. 01 | −41. 96 |
| 3. 38 | 9. 99 | 16. 59 | 23. 18 | 29. 77 | 36. 35 | 42. 95 | 49. 54 | 56. 14 | 62. 75 | 69. 36 | 82. 59 | −99. 09 | −92. 48 |
| −0. 08 | −0. 07 | −0. 07 | −0. 07 | −0. 07 | −0. 07 | −0. 07 | −0. 07 | −0. 07 | −0. 07 | −0. 07 | −0. 07 | −0. 19 | −0. 20 |
| 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 18 | 1. 11 | 1. 11 |
| 150. 02 | 138. 06 | 154. 23 | 124. 83 | 140. 94 | 131. 14 | 143. 11 | 319. 43 | 122. 15 | 122. 41 | 134. 94 | 175. 05 | 100. 17 | 95. 85 |
| 150. 14 | 138. 19 | 154. 35 | 124. 94 | 141. 14 | 131. 21 | 143. 31 | 319. 32 | 122. 34 | 122. 61 | 135. 12 | 175. 08 | 100. 19 | 95. 87 |
| 1. 41 | 1. 59 | 1. 16 | 2. 12 | 0. 97 | 3. 15 | 0. 93 | 1. 84 | 1. 26 | 1. 23 | 1. 16 | 1. 43 | 14. 63 | 12. 99 |
| 0. 55 | 0. 62 | 0. 45 | 0. 82 | 0. 38 | 1. 22 | 0. 36 | 0. 71 | 0. 49 | 0. 48 | 0. 45 | 0. 55 | 5. 31 | 4. 72 |
| 336. 00 | 323. 74 | 340. 00 | 310. 27 | 326. 64 | 316. 15 | 328. 59 | 145. 48 | 307. 60 | 307. 08 | 319. 89 | 0. 00 | 297. 38 | 292. 93 |
| 336. 12 | 323. 87 | 340. 12 | 310. 39 | 326. 83 | 316. 22 | 328. 79 | 145. 38 | 307. 79 | 307. 28 | 320. 06 | 0. 04 | 297. 40 | 292. 95 |
| 6. 10 | 5. 86 | 5. 85 | 5. 74 | 5. 79 | 5. 45 | 5. 57 | 5. 89 | 5. 63 | 4. 84 | 5. 08 | 4. 98 | 25. 78 | 24. 52 |
| 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 18 | 17 | 17 | 16 | 16 | 15 | 15 | 14 | 14 | 13 | 13 | 12 | 25 | 25 |
| 5 | 17 | 5 | 17 | 5 | 17 | 5 | 17 | 5 | 17 | 5 | 4 | 17 | 5 |
| 14 | 12 | 10 | 8 | 7 | 5 | 4 | 3 | 2 | 1 | 0 | 59 | 1 | 1 |
| 44. 03 | 40. 63 | 44. 43 | 56. 93 | 17. 63 | 47. 63 | 33. 13 | 25. 63 | 28. 63 | 37. 13 | 52. 33 | 32. 53 | 47. 43 | 23. 03 |
| 43. 91 | 40. 51 | 44. 31 | 56. 81 | 17. 51 | 47. 51 | 33. 01 | 25. 51 | 28. 51 | 37. 01 | 52. 21 | 32. 41 | 47. 31 | 22. 91 |
| 69. 24 | 68. 77 | 68. 31 | 67. 85 | 67. 40 | 66. 95 | 66. 49 | 66. 03 | 65. 56 | 65. 10 | 64. 62 | 63. 66 | 82. 77 | 82. 38 |
| 69. 46 | 69. 13 | 68. 46 | 68. 47 | 67. 60 | 67. 78 | 66. 67 | 65. 64 | 65. 94 | 65. 46 | 64. 90 | 63. 64 | 87. 83 | 86. 97 |
| 83. 42 | 83. 22 | 83. 23 | 82. 82 | 83. 02 | 82. 17 | 82. 78 | 83. 55 | 82. 45 | 82. 32 | 82. 18 | 81. 87 | 73. 29 | 74. 18 |
| 2098. 04 | 2083. 71 | 2069. 81 | 2055. 96 | 2042. 28 | 2028. 75 | 2014. 62 | 2000. 70 | 1986. 56 | 1972. 45 | 1958. 10 | 1928. 97 | 2508. 06 | 2496. 19 |
| −0. 57 | −0. 93 | −0. 39 | −1. 59 | −0. 52 | −2. 13 | −0. 47 | 1. 01 | −0. 97 | −0. 95 | −0. 71 | −0. 06 | −13. 97 | −12. 63 |
| 68. 90 | 68. 20 | 68. 08 | 66. 88 | 67. 08 | 65. 67 | 66. 20 | 66. 65 | 64. 97 | 64. 52 | 64. 19 | 63. 71 | 73. 91 | 74. 36 |
| 0. 76 | 0. 87 | 0. 63 | 1. 15 | 0. 53 | 1. 71 | 0. 50 | 0. 99 | 0. 68 | 0. 66 | 0. 63 | 0. 77 | 7. 43 | 6. 60 |
| 5. 86 | 6. 63 | 4. 82 | 8. 79 | 4. 05 | 13. 07 | 3. 87 | 7. 58 | 5. 20 | 5. 09 | 4. 82 | 5. 90 | 56. 77 | 50. 42 |
| 450. 18 | 450. 50 | 450. 82 | 451. 30 | 451. 66 | 452. 38 | 452. 57 | 453. 09 | 453. 45 | 453. 84 | 454. 16 | 454. 61 | 502. 80 | 502. 00 |
| −15. 19 | −15. 17 | −15. 09 | −15. 18 | −14. 92 | −15. 76 | −14. 90 | −13. 58 | −14. 81 | −14. 80 | −14. 89 | −15. 21 | −42. 97 | −42. 26 |
| 3. 83 | 10. 67 | 16. 90 | 24. 28 | 30. 15 | 37. 86 | 43. 30 | 48. 79 | 56. 82 | 63. 40 | 69. 88 | 82. 67 | −86. 50 | −81. 34 |
| 2720. 75 | 2722. 66 | 2724. 62 | 2727. 51 | 2729. 70 | 2734. 03 | 2735. 20 | 2738. 30 | 2740. 47 | 2742. 85 | 2744. 79 | 2747. 50 | 3038. 76 | 3033. 90 |
| 16. 79 | 17. 06 | 16. 82 | 17. 77 | 17. 43 | 17. 04 | 17. 42 | 19. 43 | 18. 27 | 17. 83 | 17. 55 | 26. 92 | −44. 77 | −43. 41 |
| 44. 62 | 52. 33 | 57. 82 | 67. 56 | 71. 80 | 81. 85 | 85. 20 | 90. 11 | 100. 03 | 107. 11 | 112. 86 | 133. 28 | −137. 83 | −132. 27 |
| −29. 58 | −29. 73 | −29. 67 | −29. 72 | −29. 50 | −29. 15 | −29. 68 | −33. 88 | −29. 53 | −30. 18 | −30. 12 | −30. 70 | −51. 88 | −50. 53 |
| 61. 94 | 70. 29 | 74. 24 | 88. 43 | 87. 65 | 105. 20 | 100. 95 | 117. 65 | 116. 60 | 123. 23 | 129. 34 | 140. 95 | −140. 88 | −135. 18 |
| 39. 21 | −38. 94 | −38. 92 | −45. 21 | −38. 63 | −39. 35 | −38. 50 | −36. 97 | −38. 40 | −37. 80 | −38. 20 | −38. 83 | −65. 34 | −63. 77 |
| −49. 50 | −41. 86 | −36. 80 | −47. 27 | −22. 95 | −14. 19 | −10. 25 | −4. 67 | 4. 36 | 10. 67 | 16. 24 | 25. 33 | 141. 15 | 147. 71 |
| 19. 81 | 20. 10 | 18. 53 | 20. 82 | 19. 62 | 22. 77 | 18. 90 | 13. 95 | 20. 69 | 19. 87 | 20. 27 | 19. 23 | 6. 80 | 3. 27 |
| −59. 29 | −44. 56 | −37. 39 | −30. 33 | −25. 65 | −17. 95 | −11. 30 | −3. 47 | 0. 37 | 9. 52 | 14. 34 | 26. 98 | −150. 05 | −142. 44 |
| 1. 87 | 1. 89 | 2. 00 | 1. 91 | 2. 22 | 1. 28 | 2. 28 | 3. 86 | 2. 41 | 2. 41 | 2. 32 | 1. 94 | −24. 04 | −23. 17 |
| 6. 23 | 13. 15 | 19. 37 | 26. 84 | 32. 65 | 40. 54 | 45. 87 | 51. 21 | 59. 40 | 66. 22 | 72. 61 | 85. 40 | −89. 94 | −84. 38 |
| −31. 49 | −31. 51 | −31. 42 | −31. 59 | −31. 26 | −32. 36 | −31. 29 | −29. 72 | −31. 24 | −31. 33 | −31. 42 | −31. 82 | −56. 15 | −55. 77 |
| 10. 83 | 17. 62 | 23. 81 | 31. 26 | 37. 05 | 44. 89 | 50. 14 | 55. 47 | 63. 71 | 70. 04 | 76. 60 | 89. 36 | −60. 00 | −56. 56 |
| −32. 48 | −32. 46 | −32. 37 | −32. 49 | −32. 21 | −33. 20 | −32. 21 | −30. 71 | −32. 15 | −32. 11 | −32. 25 | −32. 66 | −62. 06 | −61. 32 |
| 1. 04 | 7. 81 | 14. 02 | 21. 41 | 27. 25 | 34. 89 | 40. 32 | 45. 89 | 53. 8 | 60. 18 | 66. 72 | 79. 41 | −75. 82 | −72. 21 |
| 1. 00 | 1. 05 | 1. 17 | 1. 06 | 1. 40 | 0. 47 | 1. 48 | 3. 06 | 1. 59 | 1. 69 | 1. 58 | 1. 24 | −27. 68 | −26. 70 |
| −2. 02 | 4. 90 | 11. 10 | 18. 57 | 24. 36 | 32. 27 | 37. 55 | 42. 80 | 51. 07 | 57. 87 | 64. 26 | 77. 05 | −99. 59 | −94. 00 |

TABLE 2.—*Photographic*

| Plate number | 359 | 363 | 367 | 371 | 375 | 379 | 383 | 387 | 391 |
|---|---|---|---|---|---|---|---|---|---|
| Frame number | IV–180 | IV–172 | IV–167 | IV–160 | IV–155 | IV–148 | IV–142 | IV–136 | IV–131 |
| *Spacecraft* | | | | | | | | | |
| Position: | | | | | | | | | |
| Spacecraft radius (km) | 4745. 09 | 4746. 81 | 4745. 14 | 4748. 14 | 4747. 18 | 4745. 46 | 4742. 67 | 4739. 04 | 4735. 10 |
| Spacecraft altitude (km) | 3008. 99 | 3010. 71 | 3009. 04 | 3012. 04 | 3011. 08 | 3009. 36 | 3006. 57 | 3002. 94 | 2999. 00 |
| Latitude of nadir point (deg) | −41. 99 | −41. 98 | −41. 82 | −42. 03 | −42. 07 | −42. 11 | −42. 14 | −42. 16 | −42. 20 |
| Longitude of nadir point (deg) | −85. 86 | −79. 20 | −72. 48 | −65. 80 | −59. 07 | −52. 33 | −45. 58 | −38. 84 | −32. 12 |
| Orientation: | | | | | | | | | |
| Mean altitude rate (km/sec) | −0. 20 | −0. 20 | −0. 20 | −0. 20 | −0. 20 | −0. 20 | −0. 20 | −0. 20 | −0. 20 |
| Horizontal velocity (km/sec) | 1. 11 | 1. 11 | 1. 11 | 1. 11 | 1. 11 | 1. 11 | 1. 11 | 1. 11 | 1. 11 |
| Tilt azimuth (med. res.) | 85. 22 | 100. 32 | 95. 15 | 99. 01 | 95. 97 | 99. 61 | 93. 44 | 97. 11 | 52. 40 |
| Tilt azimuth (high res.) | 85. 24 | 100. 34 | 95. 16 | 99. 03 | 95. 99 | 99. 63 | 93. 46 | 97. 13 | 52. 41 |
| Emission angle (deg) | 12. 65 | 13. 12 | 13. 75 | 13. 12 | 11. 84 | 12. 73 | 14. 21 | 13. 29 | 13. 79 |
| Tilt angle (deg) | 4. 60 | 4. 76 | 4. 99 | 4. 76 | 4. 30 | 4. 62 | 5. 16 | 4. 83 | 5. 01 |
| Swing angle (deg) (med. res.) | 282. 67 | 297. 25 | 292. 42 | 296. 32 | 293. 51 | 297. 24 | 291. 29 | 295. 38 | 251. 03 |
| Swing angle (deg) (high res.) | 282. 69 | 297. 27 | 292. 44 | 296. 34 | 293. 53 | 297. 26 | 291. 31 | 295. 40 | 251. 05 |
| North deviation angle (deg) | 24. 22 | 24. 62 | 25. 08 | 24. 97 | 24. 37 | 25. 10 | 25. 91 | 25. 98 | 23. 30 |
| *Photography* | | | | | | | | | |
| Time of exposure (GMT): | | | | | | | | | |
| Year | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| Month | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Day | 24 | 24 | 23 | 23 | 22 | 22 | 21 | 21 | 20 |
| Hour | 17 | 5 | 17 | 4 | 16 | 4 | 16 | 4 | 16 |
| Minute | 0 | 0 | 0 | 59 | 58 | 57 | 56 | 54 | 52 |
| Second (med. res.) | 54. 43 | 29. 23 | 11. 63 | 16. 83 | 26. 53 | 22. 33 | 5. 33 | 35. 43 | 51. 93 |
| Second (high res.) | 54. 31 | 29. 11 | 11. 51 | 16. 71 | 26. 41 | 22. 21 | 5. 21 | 35. 31 | 51. 81 |
| Illumination (deg): | | | | | | | | | |
| Sun angle at nadir | 81. 99 | 81. 56 | 81. 06 | 80. 66 | 80. 19 | 79. 72 | 79. 24 | 78. 77 | 78. 32 |
| Phase angle | 86. 58 | 86. 06 | 85. 90 | 85. 18 | 84. 33 | 84. 07 | 84. 24 | 83. 36 | 82. 84 |
| Sun azimuth at principal ground point | 74. 57 | 73. 13 | 72. 56 | 72. 28 | 72. 76 | 71. 55 | 70. 41 | 70. 32 | 73. 97 |
| Sun arc at nadir | 2484. 27 | 2471. 23 | 2456. 22 | 2444. 01 | 2429. 69 | 2415. 46 | 2401. 07 | 2386. 88 | 2373. 17 |
| Alpha | −12. 63 | −12. 44 | −13. 35 | −12. 48 | −11. 41 | −12. 00 | −13. 81 | −12. 66 | −12. 48 |
| Incidence angle | 73. 95 | 73. 67 | 72. 58 | 72. 74 | 72. 94 | 72. 11 | 70. 47 | 70. 76 | 70. 47 |
| *Photographs* | | | | | | | | | |
| Tilt distance (mm) (film scale): | | | | | | | | | |
| Med. res. | 6. 42 | 6. 66 | 6. 97 | 6. 65 | 6. 01 | 6. 46 | 7. 21 | 6. 75 | 7. 01 |
| High res. | 49. 11 | 50. 88 | 53. 32 | 50. 87 | 45. 96 | 49. 39 | 55. 12 | 51. 62 | 53. 57 |
| Resolution constant (m) | 502. 33 | 502. 95 | 503. 14 | 503. 17 | 502. 12 | 502. 44 | 503. 09 | 501. 78 | 501. 50 |
| Principal ground point: | | | | | | | | | |
| Latitude (deg) | −40. 83 | −42. 93 | −42. 01 | −42. 79 | −42. 40 | −42. 94 | −42. 03 | −42. 64 | −36. 50 |
| Longitude (deg) | −75. 22 | −67. 94 | −60. 70 | −54. 52 | −48. 89 | −41. 38 | −33. 37 | −27. 40 | −23. 47 |
| Slant distance (km) | 3035. 90 | 3039. 64 | 3040. 82 | 3040. 98 | 3034. 64 | 3036. 57 | 3040. 52 | 3032. 60 | 3030. 92 |
| Corner coordinates (med. res.): | | | | | | | | | |
| 1 Latitude (deg) | −42. 17 | −43. 91 | −43. 63 | −44. 02 | −43. 27 | −44. 16 | −44. 18 | −44. 56 | −38. 14 |
| 1 Longitude (deg) | −124. 96 | −119. 63 | −111. 34 | −106. 18 | −100. 47 | −93. 33 | −83. 97 | −78. 89 | −70. 07 |
| 2 Latitude (deg) | −49. 32 | −51. 03 | −50. 76 | −51. 15 | −50. 42 | −51. 30 | −51. 31 | −51. 70 | −45. 42 |
| 2 Longitude (deg) | −127. 28 | −122. 89 | −114. 09 | −109. 33 | −103. 54 | −96. 56 | −86. 57 | −81. 83 | −70. 91 |
| 3 Latitude (deg) | −63. 98 | −63. 01 | −64. 53 | −61. 86 | −63. 30 | −62. 25 | −65. 96 | −63. 74 | −65. 75 |
| 3 Longitude (deg) | 151. 58 | 161. 23 | 166. 33 | 170. 49 | −176. 79 | −174. 60 | −167. 17 | −162. 53 | −159. 67 |
| 4 Latitude (deg) | −6. 43 | 3. 01 | 2. 64 | 3. 79 | 2. 70 | 1. 69 | 3. 22 | 1. 53 | 3. 78 |
| 4 Longitude (deg) | −130. 46 | −129. 22 | −121. 16 | −116. 73 | −110. 93 | −102. 74 | −94. 63 | −88. 77 | −83. 76 |
| Corner coordinates (high res.): | | | | | | | | | |
| 1 Latitude (deg) | −21. 41 | −23. 92 | −22. 88 | −23. 76 | −23. 30 | −23. 97 | −22. 92 | −23. 69 | −15. 79 |
| 1 Longitude (deg) | −78. 15 | −71. 02 | −63. 90 | −57. 73 | −51. 93 | −44. 66 | −36. 85 | −30. 96 | −26. 10 |
| 2 Latitude (deg) | −54. 26 | −56. 51 | −55. 35 | −56. 24 | −55. 98 | −56. 36 | −55. 05 | −55. 72 | −49. 81 |
| 2 Longitude (deg) | −51. 95 | −42. 37 | −35. 59 | −28. 96 | −24. 39 | −15. 83 | −7. 91 | −1. 72 | −4. 00 |
| 3 Latitude (deg) | −59. 63 | −62. 15 | −61. 02 | −61. 94 | −61. 49 | −62. 08 | −60. 90 | −61. 58 | −54. 71 |
| 3 Longitude (deg) | −66. 96 | −58. 38 | −51. 10 | −44. 77 | −40. 01 | −31. 58 | −23. 17 | −17. 05 | −17. 29 |
| 4 Latitude (deg) | −25. 07 | −27. 39 | −26. 53 | −27. 29 | −26. 77 | −27. 49 | −26. 70 | −27. 36 | −19. 89 |
| 4 Longitude (deg) | −87. 72 | −80. 69 | −73. 52 | −67. 38 | −61. 55 | −54. 30 | −46. 45 | −40. 53 | −35. 52 |

*Support Data*—Continued

| 395 | 399 | 403 | 407 | 411 | 415 | 419 | 423 | 427 | 431 | 435 | 439 | 443 | 447 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV–124 | IV–119 | IV–112 | IV–107 | IV–100 | IV–95 | IV–88 | IV–83 | IV–76 | IV–71 | IV–64 | IV–59 | IV–52 | IV–45 |
| 4730. 55 | 4726. 63 | 4722. 11 | 4717. 92 | 4714. 28 | 4711. 59 | 4709. 42 | 4707. 94 | 4707. 64 | 4708. 37 | 4708. 95 | 4710. 63 | 4712. 52 | 4715. 14 |
| 2994. 45 | 2990. 53 | 2986. 01 | 2981. 82 | 2978. 18 | 2975. 49 | 2973. 32 | 2971. 84 | 2971. 54 | 2972. 27 | 2972. 85 | 2974. 53 | 2976. 42 | 2979. 04 |
| −42. 20 | −42. 26 | −42. 26 | −42. 26 | −42. 25 | −42. 27 | −42. 26 | −42. 23 | −42. 21 | −42. 22 | −42. 14 | −42. 11 | −42. 06 | −42. 04 |
| −25. 42 | −18. 74 | −12. 09 | −5. 42 | 1. 05 | 7. 64 | 14. 18 | 20. 71 | 27. 23 | 33. 74 | 40. 27 | 46. 79 | 53. 33 | 59. 88 |
| −0. 19 | −0. 19 | −0. 19 | −0. 19 | −0. 18 | −0. 18 | −0. 18 | −0. 18 | −0. 18 | −0. 18 | −0. 17 | −0. 17 | −0. 17 | −0. 17 |
| 1. 11 | 1. 11 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 | 1. 12 |
| 99. 25 | 97. 39 | 95. 87 | 94. 92 | 96. 95 | 95. 61 | 96. 79 | 98. 68 | 97. 66 | 103. 17 | 96. 58 | 89. 39 | 99. 73 | 96. 43 |
| 99. 27 | 97. 41 | 95. 89 | 94. 93 | 96. 97 | 95. 63 | 96. 81 | 98. 70 | 97. 68 | 103. 19 | 96. 60 | 89. 42 | 99. 75 | 96. 45 |
| 13. 18 | 13. 12 | 12. 50 | 13. 80 | 13. 07 | 12. 87 | 12. 53 | 14. 08 | 12. 40 | 15. 07 | 12. 00 | 9. 73 | 12. 25 | 13. 91 |
| 4. 80 | 4. 78 | 4. 56 | 5. 04 | 4. 78 | 4. 71 | 4. 59 | 5. 15 | 4. 54 | 5. 50 | 4. 40 | 3. 57 | 4. 48 | 5. 08 |
| 297. 49 | 295. 40 | 294. 33 | 292. 87 | 295. 34 | 293. 88 | 295. 30 | 297. 04 | 295. 70 | 301. 10 | 294. 30 | 286. 90 | 297. 18 | 293. 27 |
| 297. 51 | 295. 42 | 294. 35 | 292. 89 | 295. 36 | 293. 90 | 295. 32 | 297. 06 | 295. 72 | 301. 12 | 294. 32 | 286. 93 | 297. 20 | 293. 28 |
| 25. 96 | 25. 65 | 25. 68 | 25. 87 | 25. 98 | 25. 69 | 25. 77 | 26. 58 | 25. 25 | 26. 92 | 24. 65 | 22. 95 | 24. 59 | 24. 82 |
| 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 20 | 19 | 19 | 18 | 18 | 17 | 17 | 16 | 16 | 15 | 15 | 14 | 14 | 13 |
| 4 | 16 | 4 | 16 | 4 | 16 | 4 | 16 | 4 | 16 | 4 | 16 | 4 | 16 |
| 50 | 48 | 46 | 44 | 42 | 40 | 38 | 36 | 35 | 33 | 32 | 31 | 30 | 29 |
| 59. 33 | 55. 13 | 49. 63 | 42. 43 | 36. 73 | 33. 53 | 38. 33 | 52. 23 | 13. 93 | 44. 23 | 29. 83 | 21. 93 | 24. 33 | 31. 83 |
| 59. 21 | 55. 01 | 49. 51 | 42. 31 | 36. 61 | 33. 41 | 38. 21 | 52. 11 | 13. 81 | 44. 11 | 29. 71 | 21. 81 | 24. 21 | 31. 71 |
| 77. 88 | 77. 48 | 77. 08 | 76. 67 | 76. 40 | 76. 06 | 75. 75 | 75. 43 | 75. 14 | 74. 85 | 74. 53 | 74. 23 | 73. 91 | 73. 59 |
| 82. 36 | 81. 98 | 81. 41 | 81. 46 | 80. 89 | 80. 50 | 80. 04 | 80. 18 | 79. 35 | 79. 72 | 78. 62 | 77. 68 | 77. 97 | 78. 29 |
| 69. 38 | 69. 07 | 69. 17 | 67. 93 | 68. 05 | 67. 90 | 67. 75 | 66. 27 | 67. 21 | 64. 69 | 66. 96 | 68. 54 | 66. 03 | 64. 71 |
| 2359. 93 | 2347. 61 | 2335. 60 | 2323. 06 | 2315. 07 | 2304. 58 | 2295. 13 | 2285. 71 | 2276. 66 | 2268. 07 | 2258. 35 | 2249. 09 | 2239. 47 | 2229. 72 |
| −12. 33 | −12. 39 | −11. 88 | −13. 16 | −12. 30 | −12. 19 | −11. 76 | −13. 04 | −11. 53 | −13. 44 | −11. 21 | −9. 42 | −11. 14 | −12. 94 |
| 70. 10 | 69. 65 | 69. 58 | 68. 35 | 68. 65 | 68. 38 | 68. 34 | 67. 24 | 67. 89 | 66. 46 | 67. 49 | 68. 28 | 66. 92 | 65. 46 |
| 6. 71 | 6. 68 | 6. 38 | 7. 04 | 6. 68 | 6. 58 | 6. 41 | 7. 20 | 6. 35 | 7. 70 | 6. 14 | 4. 98 | 6. 27 | 7. 10 |
| 51. 29 | 51. 10 | 48. 75 | 53. 82 | 51. 05 | 50. 30 | 49. 01 | 55. 03 | 48. 52 | 58. 84 | 46. 97 | 38. 10 | 47. 90 | 54. 26 |
| 500. 29 | 499. 60 | 498. 40 | 498. 66 | 497. 51 | 496. 92 | 496. 32 | 497. 22 | 495. 93 | 498. 09 | 495. 88 | 494. 79 | 496. 64 | 498. 28 |
| −43. 00 | −42. 78 | −42. 57 | −42. 40 | −42. 71 | −42. 53 | −42. 69 | −42. 94 | −42. 77 | −43. 68 | −42. 55 | −41. 75 | −42. 90 | −42. 41 |
| −14. 08 | −7. 44 | −1. 35 | 6. 45 | 12. 29 | 18. 70 | 24. 94 | 32. 82 | 37. 87 | 46. 67 | 50. 55 | 55. 05 | 63. 81 | 71. 80 |
| 3023. 59 | 3019. 39 | 3012. 18 | 3013. 73 | 3006. 78 | 3003. 21 | 2999. 59 | 3005. 03 | 2997. 25 | 3010. 30 | 2996. 95 | 2990. 35 | 3001. 54 | 3011. 42 |
| −44. 81 | −44. 49 | −44. 33 | −44. 45 | −44. 68 | −44. 38 | −44. 51 | −45. 29 | −44. 25 | 23. 54 | −43. 71 | −41. 85 | −43. 92 | −43. 86 |
| −65. 81 | −58. 78 | −52. 63 | −44. 13 | −38. 84 | −32. 18 | −26. 22 | −18. 22 | −13. 27 | 42. 45 | −0. 40 | 4. 32 | 12. 51 | 21. 53 |
| −51. 93 | −51. 59 | −51. 43 | −51. 53 | −51. 76 | −51. 46 | −51. 59 | −52. 36 | −51. 32 | −53. 09 | −50. 78 | −48. 96 | −50. 99 | −50. 91 |
| −68. 90 | −61. 74 | −55. 51 | −46. 80 | −41. 70 | −34. 97 | −29. 11 | −21. 06 | −16. 23 | −8. 08 | −3. 35 | 1. 49 | 9. 36 | 18. 75 |
| −62. 52 | −64. 56 | −61. 95 | −64. 80 | −63. 55 | −63. 31 | −65. 22 | −63. 58 | −64. 24 | −65. 14 | −62. 21 | −61. 64 | −62. 70 | −64. 13 |
| −150. 79 | −139. 61 | −138. 72 | −129. 53 | −123. 92 | −117. 58 | −105. 13 | −106. 78 | −92. 79 | −89. 88 | −82. 86 | −71. 20 | −67. 32 | −62. 72 |
| 2. 86 | 1. 26 | 2. 01 | 5. 25 | 3. 22 | 2. 07 | 3. 04 | 1. 20 | 4. 08 | 2. 03 | 1. 07 | −3. 44 | 1. 19 | 3. 95 |
| −79. 50 | −68. 26 | −63. 25 | −56. 36 | −50. 10 | −42. 62 | −37. 61 | −27. 78 | −25. 00 | −14. 20 | −9. 83 | −2. 81 | 3. 44 | 11. 34 |
| −24. 16 | −23. 90 | −23. 71 | −23. 51 | −23. 93 | −23. 72 | −23. 94 | −24. 26 | −24. 02 | −25. 11 | −23. 74 | −22. 73 | −24. 13 | −23. 50 |
| −17. 64 | −10. 88 | −4. 82 | 2. 97 | 8. 74 | 15. 25 | 21. 44 | 29. 09 | 34. 55 | 42. 84 | 47. 44 | 52. 46 | 60. 72 | 68. 71 |
| −56. 08 | −55. 91 | −55. 66 | −55. 37 | −55. 69 | −55. 57 | −55. 72 | −55. 74 | −55. 96 | −56. 46 | −55. 91 | −55. 49 | −56. 35 | −55. 73 |
| 11. 78 | 18. 01 | 23. 64 | 31. 75 | 37. 62 | 43. 65 | 49. 93 | 58. 88 | 62. 69 | 74. 02 | 74. 86 | 77. 37 | 88. 56 | 96. 81 |
| −61. 95 | −61. 68 | −61. 38 | −61. 15 | −61. 48 | −61. 27 | −61. 44 | −61. 68 | −61. 57 | −62. 58 | −61. 38 | −60. 52 | −61. 86 | −61. 29 |
| −3. 65 | 2 61 | 8. 48 | 16. 55 | 22. 45 | 28. 52 | 34. 82 | 43. 69 | 47. 39 | 58. 42 | 59. 50 | 62. 17 | 72. 95 | 81. 22 |
| −27. 78 | −27. 51 | −27. 32 | −27. 21 | −27. 57 | −27. 34 | −27. 54 | −27. 96 | −27. 54 | −28. 78 | −27. 20 | −26. 00 | −27. 54 | −27. 06 |
| −27. 21 | −20. 45 | −14. 34 | −6. 56 | −0. 77 | 5. 75 | 11. 96 | 19. 59 | 25. 05 | 33. 28 | 37. 92 | 42. 95 | 51. 17 | 59. 13 |

TABLE 2.—*Photographic*

| Plate number | 449 | 453 | 457 | 461 | 465 | 469 | 473 | 477 | 481 |
|---|---|---|---|---|---|---|---|---|---|
| Frame number | IV–38 | IV–9 | IV–193 | IV–179 | IV–166 | IV–154 | IV–130 | IV–118 | IV–106 |
| *Spacecraft* | | | | | | | | | |
| Position: | | | | | | | | | |
| Spacecraft radius (km) | 4717. 67 | 4725. 22 | 5255. 27 | 5327. 89 | 5328. 66 | 5349. 48 | 5310. 89 | 5291. 03 | 5270. 57 |
| Spacecraft altitude (km) | 2981. 57 | 2989. 12 | 3519. 17 | 3591. 79 | 3592. 56 | 3613. 38 | 3574. 79 | 3554. 93 | 3534. 47 |
| Latitude of nadir point (deg) | −42. 01 | −42. 02 | −68. 87 | −71. 38 | −71. 19 | −72. 07 | −71. 62 | −71. 67 | −71. 71 |
| Longitude of nadir point (deg) | 66. 45 | 86. 28 | −107. 44 | −96. 22 | −82. 44 | −69. 24 | −40. 64 | −26. 89 | −13. 37 |
| Orientation: | | | | | | | | | |
| Mean altitude rate (km/sec) | −0. 17 | −0. 18 | −0. 26 | −0. 26 | −0. 26 | −0. 26 | −0. 26 | −0. 26 | −0. 25 |
| Horizontal velocity (km/sec) | 1. 12 | 1. 12 | 1. 00 | 0. 99 | 0. 99 | 0. 98 | 0. 99 | 0. 99 | 1. 00 |
| Tilt azimuth (med. res.) | 98. 04 | 91. 54 | 70. 08 | 86. 51 | 101. 41 | 105. 15 | 46. 67 | 107. 05 | 104. 45 |
| Tilt azimuth (high res.) | 98. 06 | 91. 57 | 70. 10 | 86. 54 | 101. 44 | 105. 17 | 46. 68 | 107. 08 | 104. 47 |
| Emission angle (deg) | 13. 21 | 11. 63 | 14. 66 | 11. 24 | 10. 51 | 16. 12 | 12. 62 | 9. 14 | 10. 49 |
| Tilt angle (deg) | 4. 82 | 4. 25 | 4. 80 | 3. 64 | 3. 41 | 5. 17 | 4. 10 | 2. 99 | 3. 44 |
| Swing angle (deg) (med. res.) | 295. 22 | 288. 59 | 231. 90 | 246. 39 | 264. 00 | 267. 78 | 211. 09 | 274. 58 | 271. 96 |
| Swing angle (deg) (high res.) | 295. 24 | 288. 62 | 231. 91 | 246. 41 | 264. 03 | 267. 80 | 211. 11 | 274. 61 | 271. 98 |
| North deviation angle (deg) | 24. 82 | 23. 58 | 0. 60 | 0. 37 | 3. 49 | 15. 99 | 357. 56 | 6. 46 | 9. 12 |
| *Photography* | | | | | | | | | |
| Time of exposure (GMT): | | | | | | | | | |
| Year | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| Month | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Day | 13 | 11 | 25 | 24 | 23 | 22 | 20 | 19 | 18 |
| Hour | 4 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Minute | 28 | 26 | 24 | 19 | 18 | 15 | 11 | 8 | 4 |
| Second (med. res.) | 45. 93 | 38. 03 | 27. 63 | 23. 93 | 43. 83 | 55. 43 | 43. 23 | 5. 03 | 5. 83 |
| Second (high res.) | 45. 81 | 37. 91 | 27. 51 | 23. 81 | 43. 71 | 55. 31 | 43. 11 | 4. 91 | 5. 71 |
| Illumination (deg): | | | | | | | | | |
| Sun angle at nadir | 73. 25 | 72. 19 | 90. 07 | 90. 44 | 89. 90 | 89. 59 | 88. 19 | 87. 69 | 87. 26 |
| Phase angle | 77. 66 | 76. 22 | 94. 63 | 94. 08 | 93. 20 | 94. 49 | 91. 50 | 90. 37 | 90. 39 |
| Sun azimuth at principal ground point | 64. 76 | 65. 09 | 68. 60 | 68. 16 | 66. 38 | 52. 21 | 69. 34 | 62. 02 | 57. 96 |
| Sun arc at nadir | 2219. 55 | 2187. 45 | 2729. 05 | 2740. 48 | 2723. 91 | 2714. 77 | 2672. 14 | 2656. 95 | 2644. 10 |
| Alpha | −12. 12 | −11. 05 | −13. 97 | −11. 23 | −10. 21 | −15. 32 | −10. 27 | −8. 24 | −9. 57 |
| Incidence angle | 65. 65 | 65. 22 | 89. 69 | 82. 85 | 83. 00 | 79. 22 | 81. 31 | 82. 16 | 80. 85 |
| *Photographs* | | | | | | | | | |
| Tilt distance (mm) (film scale): | | | | | | | | | |
| Med. res. | 6. 74 | 5. 93 | 6. 70 | 5. 08 | 4. 75 | 7. 23 | 5. 72 | 4. 17 | 4. 80 |
| High res. | 51. 55 | 45. 37 | 51. 24 | 38. 86 | 36. 35 | 55. 25 | 43. 72 | 31. 87 | 36. 69 |
| Resolution constant (m) | 498. 18 | 498. 34 | 588. 60 | 598. 04 | 597. 69 | 605. 57 | 596. 19 | 590. 66 | 588. 05 |
| Principal ground point: | | | | | | | | | |
| Latitude (deg) | −42. 63 | −41. 79 | −63. 88 | −69. 51 | −71. 30 | −71. 70 | −65. 02 | −72. 49 | −72. 16 |
| Longitude (deg) | 77. 77 | 96. 20 | −85. 98 | −74. 07 | −60. 23 | −33. 52 | −25. 85 | −6. 99 | 9. 45 |
| Slant distance (km) | 3010. 80 | 3011. 79 | 3557. 30 | 3614. 33 | 3612. 25 | 3659. 87 | 3603. 18 | 3569. 77 | 3554. 00 |
| Corner coordinates (med. res.): | | | | | | | | | |
| 1 Latitude (deg) | −43. 95 | −42. 44 | −35. 04 | −36. 38 | −38. 76 | −45. 37 | −27. 79 | −40. 08 | −41. 99 |
| 1 Longitude (deg) | 26. 96 | 45. 79 | −147. 49 | −140. 73 | −131. 39 | −115. 08 | −87. 91 | −82. 21 | −67. 07 |
| 2 Latitude (deg) | −51. 01 | −49. 54 | −41. 24 | −41. 21 | −42. 79 | −49. 35 | −35. 39 | −43. 61 | −45. 69 |
| 2 Longitude (deg) | 24. 01 | 43. 02 | −156. 16 | −150. 87 | −142. 25 | −126. 76 | −96. 45 | −93. 52 | −78. 39 |
| 3 Latitude (deg) | −63. 24 | −63. 01 | −28. 34 | −35. 30 | −28. 44 | −43. 24 | −34. 55 | −26. 22 | −29. 65 |
| 3 Longitude (deg) | −55. 95 | −32. 87 | 150. 47 | 173. 75 | 178. 41 | −165. 87 | −128. 40 | −131. 00 | −119. 04 |
| 4 Latitude (deg) | 3. 52 | −7. 21 | −21. 32 | −24. 53 | −5. 44 | −21. 23 | −26. 82 | −7. 81 | −12. 75 |
| 4 Longitude (deg) | 16. 69 | 41. 18 | −139. 56 | −131. 03 | −116. 75 | −96. 65 | −87. 28 | −66. 93 | −50. 40 |
| Corner coordinates (high res.): | | | | | | | | | |
| 1 Latitude (deg) | −23. 78 | −22. 69 | −37. 95 | −44. 68 | −47. 19 | −46. 61 | −38. 65 | −49. 05 | −48. 61 |
| 1 Longitude (deg) | 74. 65 | 93. 46 | −77. 24 | −64. 62 | −52. 42 | −32. 55 | −15. 98 | −1. 13 | 13. 83 |
| 2 Latitude (deg) | −56. 00 | −55. 44 | −81. 89 | −83. 09 | −81. 09 | −75. 94 | −84. 03 | −79. 86 | −79. 22 |
| 2 Longitude (deg) | 102. 78 | 119. 53 | −31. 48 | 31. 86 | 55. 67 | 66. 38 | 31. 66 | 110. 61 | 119. 97 |
| 3 Latitude (deg) | −61. 57 | −60. 67 | −83. 58 | −85. 11 | −84. 69 | −84. 73 | −83. 16 | −84. 11 | −84. 92 |
| 3 Longitude (deg) | 87. 17 | 104. 14 | −128. 50 | 176. 15 | 159. 69 | 123. 46 | −83. 59 | −164. 01 | −157. 46 |
| 4 Latitude (deg) | −27. 28 | −26. 10 | −39. 54 | −45. 77 | −48. 37 | −49. 55 | −39. 36 | −50. 26 | −50. 19 |
| 4 Longitude (deg) | 65. 08 | 83. 90 | −92. 40 | −81. 21 | −69. 53 | −50. 17 | −31. 21 | −18. 40 | −3. 34 |

*Support Data*—Continued

| 485 | 489 | 493 | 497 | 501 | 505 | 506 | 509 | 510 | 513 | 517 | 521 | 525 | 529 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV–94 | IV–82 | IV–70 | IV–58 | IV–44 | IV–8 | IV–5 | IV–192 | IV–191 | IV–177 | IV–165 | IV–184 | IV–178 | V–53 |
| 5252. 98 | 5239. 01 | 5232. 59 | 5229. 71 | 5233. 65 | 5241. 15 | 5248. 59 | 7240. 10 | 7239. 51 | 7227. 97 | 7222. 63 | 7526. 26 | 7532. 35 | 2926. 53 |
| 3516. 88 | 3502. 91 | 3496. 49 | 3493. 61 | 3497. 55 | 3505. 05 | 3512. 49 | 5504. 00 | 5503. 41 | 5491. 87 | 5486. 53 | 5790. 16 | 5796. 25 | 1190. 53 |
| −71. 70 | −71. 62 | −71. 56 | −71. 36 | −71. 27 | −70. 91 | −71. 23 | 33. 93 | 33. 95 | 33. 96 | 33. 96 | −34. 03 | −33. 98 | 42. 56 |
| −0. 67 | 12. 04 | 24. 60 | 37. 31 | 50. 06 | 76. 54 | 76. 27 | 86. 05 | 86. 05 | 99. 33 | 112. 70 | 97. 52 | 104. 14 | −147. 00 |
| −0. 25 | −0. 25 | −0. 25 | −0. 25 | −0. 24 | −0. 24 | −0. 25 | 0. 17 | 0. 17 | 0. 17 | 0. 17 | −0. 13 | −0. 13 | 0. 28 |
| 1. 00 | 1. 01 | 1. 01 | 1. 01 | 1. 01 | 1. 01 | 1. 01 | 0. 73 | 0. 73 | 0. 73 | 0. 73 | 0. 70 | 0. 70 | 1. 16 |
| 103. 48 | 106. 42 | 109. 75 | 100. 34 | 106. 98 | 92. 09 | 100. 25 | 288. 75 | 288. 89 | 290. 06 | 290. 12 | 259. 11 | 264. 17 | 297. 71 |
| 103. 51 | 106. 45 | 109. 77 | 100. 37 | 107. 01 | 92. 12 | 100. 28 | 288. 76 | 288. 89 | 290. 06 | 290. 13 | 259. 11 | 264. 16 | 297. 39 |
| 9. 62 | 9. 44 | 11. 25 | 8. 10 | 8. 97 | 7. 32 | 7. 17 | 33. 94 | 33. 98 | 33. 22 | 33. 33 | 29. 73 | 23. 42 | 46. 75 |
| 3. 17 | 3. 12 | 3. 71 | 2. 68 | 2. 96 | 2. 42 | 2. 36 | 7. 69 | 7. 70 | 7. 56 | 7. 59 | 6. 57 | 5. 26 | 25. 60 |
| 270. 51 | 272. 96 | 276. 02 | 268. 69 | 274. 66 | 259. 55 | 267. 46 | 281. 73 | 281. 86 | 282. 31 | 281. 67 | 269. 51 | 274. 97 | 107. 30 |
| 270. 53 | 272. 99 | 276. 05 | 268. 72 | 274. 69 | 259. 58 | 267. 49 | 281. 73 | 281. 87 | 282. 31 | 281. 67 | 269. 51 | 274. 97 | 106. 97 |
| 6. 78 | 5. 94 | 9. 51 | 4. 51 | 5. 72 | 1. 36 | 1. 44 | 192. 19 | 192. 26 | 191. 42 | 190. 78 | 174. 87 | 178. 99 | 12. 78 |
| 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 8 |
| 17 | 16 | 15 | 14 | 13 | 11 | 11 | 25 | 25 | 24 | 23 | 25 | 24 | 11 |
| 16 | 15 | 15 | 15 | 15 | 15 | 15 | 9 | 9 | 9 | 9 | 1 | 13 | 18 |
| 0 | 56 | 53 | 51 | 49 | 46 | 46 | 47 | 47 | 45 | 43 | 30 | 29 | 40 |
| 8. 23 | 38. 03 | 35. 33 | 18. 33 | 23. 83 | 48. 33 | 17. 93 | 9. 13 | 5. 63 | 28. 53 | 51. 03 | 32. 13 | 33. 33 | 5. 83 |
| 8. 11 | 37. 91 | 35. 21 | 18. 21 | 23. 71 | 48. 21 | 17. 81 | 9. 01 | 5. 51 | 28. 41 | 50. 91 | 32. 01 | 33. 21 | 5. 71 |
| 87. 09 | 86. 90 | 86. 76 | 86. 56 | 86. 36 | 85. 60 | 85. 77 | 99. 43 | 99. 43 | 100. 33 | 101. 31 | 106. 22 | 106. 64 | 101. 25 |
| 89. 98 | 89. 67 | 89. 95 | 89. 04 | 88. 95 | 87. 93 | 87. 93 | 106. 97 | 106. 97 | 107. 72 | 108. 75 | 112. 78 | 111. 88 | 125. 81 |
| 59. 44 | 59. 38 | 55. 08 | 61. 98 | 59. 57 | 61. 94 | 61. 85 | 257. 70 | 257. 65 | 258. 73 | 259. 41 | 275. 83 | 271. 85 | 261. 56 |
| 2638. 82 | 2633. 10 | 2628. 97 | 2622. 70 | 2616. 65 | 2593. 81 | 2598. 77 | 3012. 79 | 3012. 65 | 3040. 19 | 3069. 88 | 3218. 44 | 3231. 25 | 3067. 84 |
| −8. 81 | −8. 41 | −9. 69 | −7. 52 | −7. 86 | −7. 04 | −6. 56 | −33. 38 | −33. 40 | −32. 59 | −32. 76 | −29. 72 | −23. 34 | −45. 25 |
| 81. 19 | 81. 28 | 80. 31 | 81. 53 | 81. 12 | 80. 89 | 81. 38 | 73. 70 | 73. 68 | 75. 24 | 76. 08 | 83. 06 | 88. 54 | 80. 82 |
| 4. 42 | 4. 35 | 5. 18 | 3. 74 | 4. 14 | 3. 38 | 3. 30 | 10. 79 | 10. 81 | 10. 61 | 10. 65 | 9. 20 | 7. 35 | 38. 25 |
| 33. 80 | 33. 25 | 39. 63 | 28. 60 | 31. 62 | 25. 80 | 25. 22 | 82. 52 | 82. 61 | 81. 09 | 81. 39 | 70. 32 | 56. 19 | 291. 40 |
| 584. 63 | 582. 21 | 582. 24 | 579. 98 | 581. 07 | 581. 52 | 582. 69 | 948. 86 | 948. 85 | 945. 25 | 944. 60 | 987. 68 | 977. 48 | 239. 88 |
| −72. 11 | −72. 37 | −72. 64 | −71. 57 | −72. 11 | −70. 49 | −71. 50 | 38. 22 | 38. 29 | 38. 81 | 38. 83 | −35. 18 | −33. 87 | 48. 97 |
| 20. 19 | 32. 47 | 49. 06 | 54. 40 | 69. 06 | 91. 36 | 91. 31 | 53. 84 | 53. 79 | 67. 86 | 81. 13 | 69. 32 | 82. 21 | 176. 11 |
| 3533. 29 | 3518. 68 | 3518. 89 | 3505. 20 | 3511. 77 | 3514. 53 | 3521. 59 | 5734. 62 | 5734. 55 | 5712. 80 | 5708. 84 | 5969. 23 | 5907. 59 | 1449. 77 |
| −41. 01 | −41. 01 | −43. 35 | −39. 51 | −40. 69 | −37. 02 | −37. 42 | 17. 90 | 17. 99 | 17. 24 | 16. 76 | −16. 18 | 0. 00 | 68. 29 |
| −54. 28 | −41. 47 | −27. 76 | −17. 94 | −4. 66 | 22. 27 | 21. 11 | 132. 69 | 132. 69 | 146. 49 | 159. 14 | 159. 64 | 0. 00 | −145. 57 |
| −44. 72 | −44. 60 | −46. 86 | −43. 32 | −44. 28 | −41. 19 | −41. 23 | 28. 53 | 28. 60 | 27. 70 | 27. 23 | −3. 97 | 0. 00 | 33. 43 |
| −65. 43 | −52. 64 | −39. 20 | −28. 84 | −15. 80 | 11. 78 | 10. 34 | 142. 38 | 142. 42 | 156. 43 | 168. 91 | 150. 98 | 0. 00 | −153. 90 |
| −28. 24 | −28. 24 | −33. 95 | −28. 61 | −27. 52 | −26. 09 | −26. 92 | 30. 72 | 32. 11 | 30. 76 | 29. 38 | −2. 54 | 0. 00 | 16. 77 |
| −105. 27 | −91. 86 | −78. 97 | −65. 96 | −54. 48 | −24. 73 | −24. 02 | 178. 70 | 175. 62 | −172. 21 | −156. 33 | 150. 66 | 0. 00 | 162. 64 |
| −9. 55 | −9. 94 | −19. 16 | −9. 04 | −7. 25 | −7. 21 | −8. 79 | −0. 32 | −0. 19 | −1. 00 | −1. 49 | −16. 97 | 0. 00 | 74. 29 |
| −38. 48 | −25. 27 | −9. 95 | −3. 83 | 10. 73 | 34. 08 | 34. 11 | 128. 32 | 128. 28 | 141. 99 | 154. 61 | 160. 95 | 0. 00 | 156. 39 |
| −48. 77 | −49. 25 | −49. 47 | −48. 54 | −49. 13 | −47. 34 | −48. 49 | −6. 44 | −6. 28 | −4. 74 | −4. 99 | −54. 62 | −67. 04 | 58. 15 |
| 25. 84 | 38. 62 | 53. 30 | 61. 10 | 75. 23 | 99. 66 | 99. 73 | 40. 06 | 40. 10 | 54. 41 | 66. 84 | −18. 71 | 20. 49 | −176. 97 |
| −80. 17 | −80. 35 | −78. 92 | −81. 40 | −80. 58 | −82. 94 | −82. 34 | 53. 54 | 53. 43 | 55. 37 | 55. 86 | 19. 76 | 18. 22 | 41. 04 |
| 133. 55 | 148. 64 | 160. 96 | 167. 78 | −175. 64 | −157. 49 | −149. 16 | −8. 76 | −9. 33 | 6. 67 | 20. 71 | 42. 17 | 58. 90 | −169. 93 |
| −84. 86 | −84. 55 | −84. 62 | −85. 07 | −84. 72 | −84. 99 | −84. 30 | 77. 04 | 77. 07 | 78. 13 | 78. 34 | 4. 85 | 7. 38 | 39. 91 |
| −135. 37 | −120. 73 | −121. 01 | −86. 75 | −81. 76 | −28. 31 | −39. 02 | 10. 24 | 9. 39 | 25. 47 | 41. 92 | 76. 07 | 86. 97 | −177. 51 |
| −50. 07 | −50. 43 | −51. 06 | −49. 53 | −50. 24 | −48. 02 | −49. 13 | 3. 55 | 3. 66 | 4. 17 | 4. 04 | −75. 91 | −72. 86 | 57. 83 |
| 8. 77 | 21. 50 | 36. 01 | 44. 35 | 58. 24 | 83. 24 | 82. 97 | 65. 44 | 65. 44 | 78. 98 | 91. 79 | 65. 11 | 94. 71 | 168. 15 |

TABLE 2.—*Photographic*

| Plate number | 533 | 537 | 541 | 545 | 549 | 553 | 557 | 561 | 565 |
|---|---|---|---|---|---|---|---|---|---|
| Frame number | V–28 | V–181 | V–163 | V–158 | V–124 | V–79 | V–103 | V–85 | V–39 |
| *Spacecraft* | | | | | | | | | |
| Position: | | | | | | | | | |
| Spacecraft radius (km) | 6751. 49 | 2917. 33 | 2966. 77 | 2969. 01 | 2972. 61 | 2980. 92 | 2972. 57 | 2975. 46 | 2988. 46 |
| Spacecraft altitude (km) | 5015. 49 | 1181. 33 | 1230. 77 | 1233. 01 | 1236. 61 | 1244. 92 | 1236. 57 | 1239. 46 | 1252. 46 |
| Latitude of nadir point (deg) | 24. 16 | 41. 61 | 37. 62 | 37. 69 | 37. 82 | 37. 72 | 37. 85 | 37. 80 | 37. 14 |
| Longitude of nadir point (deg) | −103. 16 | 134. 27 | 147. 19 | 152. 57 | 170. 09 | −163. 64 | 178. 75 | −172. 42 | −128. 86 |
| Orientation: | | | | | | | | | |
| Mean altitude rate (km/sec) | 0. 34 | 0. 28 | 0. 26 | 0. 26 | 0. 26 | 0. 25 | 0. 26 | 0. 26 | 0. 25 |
| Horizontal velocity (km/sec) | 0. 57 | 1. 16 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 14 | 1. 13 |
| Tilt azimuth (med. res.) | 282. 05 | 279. 41 | 279. 54 | 278. 68 | 280. 54 | 281. 65 | 281. 31 | 281. 63 | 283. 48 |
| Tilt azimuth (high res.) | 281. 13 | 279. 06 | 279. 20 | 278. 35 | 280. 20 | 281. 34 | 280. 99 | 281. 32 | 283. 18 |
| Emission angle (deg) | 35. 73 | 41. 89 | 44. 74 | 44. 49 | 44. 92 | 48. 31 | 47. 20 | 48. 27 | 50. 79 |
| Tilt angle (deg) | 8. 64 | 23. 41 | 24. 32 | 24. 19 | 24. 36 | 25. 78 | 25. 37 | 25. 81 | 26. 75 |
| Swing angle (deg) (med. res.) | 90. 67 | 90. 24 | 89. 72 | 89. 58 | 90. 23 | 89. 54 | 89. 94 | 89. 79 | 89. 71 |
| Swing angle (deg) (high res.) | 89. 71 | 89. 88 | 89. 37 | 89. 22 | 89. 87 | 89. 21 | 89. 61 | 89. 46 | 89. 39 |
| North deviation angle (deg) | 1. 55 | 5. 69 | 4. 40 | 4. 79 | 4. 41 | 3. 80 | 4. 18 | 4. 07 | 3. 27 |
| *Photography* | | | | | | | | | |
| Time of exposure (GMT): | | | | | | | | | |
| Year | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| Month | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Day | 8 | 17 | 16 | 16 | 15 | 13 | 14 | 13 | 10 |
| Hour | 14 | 17 | 19 | 10 | 2 | 2 | 10 | 18 | 10 |
| Minute | 52 | 56 | 42 | 10 | 20 | 34 | 24 | 29 | 52 |
| Second (med. res.) | 30. 13 | 42. 43 | 58. 53 | 5. 73 | 3. 93 | 32. 33 | 50. 73 | 40. 33 | 51. 53 |
| Second (high res.) | 30. 01 | 42. 31 | 58. 41 | 5. 61 | 3. 81 | 32. 21 | 50. 61 | 40. 21 | 51. 41 |
| Illumination (deg): | | | | | | | | | |
| Sun angle at nadir | 109. 30 | 97. 15 | 98. 99 | 99. 39 | 100. 41 | 101. 96 | 100. 84 | 101. 42 | 103. 89 |
| Phase angle | 117. 93 | 120. 55 | 123. 31 | 123. 58 | 124. 76 | 127. 73 | 126. 21 | 127. 22 | 130. 63 |
| Sun azimuth at principal ground point | 267. 70 | 261. 60 | 262. 73 | 263. 22 | 263. 63 | 263. 27 | 262. 90 | 262. 86 | 263. 63 |
| Sun arc at nadir | 3311. 54 | 2943. 54 | 2999. 24 | 3011. 35 | 3042. 20 | 3089. 15 | 3055. 31 | 3072. 83 | 3147. 64 |
| Alpha | −35. 72 | −41. 88 | −44. 74 | −44. 49 | −44. 92 | −48. 31 | −47. 20 | −48. 26 | −50. 79 |
| Incidence angle | 82. 21 | 76. 68 | 78. 57 | 79. 09 | 79. 84 | 79. 43 | 79. 01 | 78. 96 | 79. 85 |
| *Photographs* | | | | | | | | | |
| Tilt distance (mm) (film scale): | | | | | | | | | |
| Med. res. | 12. 13 | 34. 57 | 36. 09 | 35. 86 | 36. 14 | 38. 56 | 37. 87 | 38. 61 | 40. 24 |
| High res. | 92. 71 | 263. 84 | 275. 48 | 273. 75 | 275. 88 | 294. 31 | 289. 01 | 294. 72 | 307. 16 |
| Resolution constant (m) | 871. 28 | 229. 13 | 243. 29 | 243. 21 | 244. 70 | 253. 09 | 249. 24 | 252. 00 | 259. 97 |
| Principal ground point: | | | | | | | | | |
| Latitude (deg) | 26. 81 | 41. 96 | 38. 16 | 37. 94 | 38. 67 | 38. 78 | 38. 84 | 38. 85 | 38. 84 |
| Longitude (deg) | −133. 10 | 109. 41 | 121. 24 | 126. 79 | 143. 83 | 167. 58 | 150. 83 | 158. 87 | −159. 43 |
| Slant distance (km) | 5265. 72 | 1384. 79 | 1470. 37 | 1469. 88 | 1478. 87 | 1529. 62 | 1506. 34 | 1523. 02 | 1571. 18 |
| Corner coordinates (med. res.): | | | | | | | | | |
| 1 Latitude (deg) | 38. 73 | 58. 19 | 54. 92 | 54. 92 | 55. 45 | 55. 52 | 55. 59 | 55. 63 | 55. 44 |
| 1 Longitude (deg) | −17. 61 | 133. 15 | 145. 21 | 150. 37 | 168. 35 | −166. 42 | 176. 18 | −175. 34 | −132. 02 |
| 2 Latitude (deg) | −35. 06 | 26. 05 | 21. 22 | 21. 13 | 21. 61 | 21. 31 | 21. 64 | 21. 55 | 20. 94 |
| 2 Longitude (deg) | −65. 49 | 127. 94 | 139. 83 | 145. 52 | 162. 53 | −173. 04 | 170. 00 | 178. 29 | −139. 62 |
| 3 Latitude (deg) | 8. 48 | 10. 64 | 11. 92 | 11. 66 | 12. 49 | 8. 51 | 10. 70 | 9. 23 | 0. 00 |
| 3 Longitude (deg) | −70. 71 | 94. 57 | 114. 63 | 120. 50 | 137. 18 | 157. 01 | 142. 33 | 148. 97 | 0. 00 |
| 4 Latitude (deg) | 19. 40 | 59. 54 | 60. 06 | 59. 64 | 60. 86 | 61. 47 | 61. 29 | 61. 40 | 61. 30 |
| 4 Longitude (deg) | −65. 83 | 59. 38 | 97. 66 | 103. 47 | 118. 54 | 134. 98 | 120. 95 | 125. 89 | 150. 82 |
| Corner coordinates (high res.): | | | | | | | | | |
| 1 Latitude (deg) | 60. 89 | 50. 12 | 46. 78 | 46. 58 | 47. 35 | 47. 71 | 47. 65 | 47. 76 | 47. 97 |
| 1 Longitude (deg) | −129. 42 | 111. 11 | 123. 30 | 128. 72 | 145. 92 | 169. 98 | 153. 07 | 161. 18 | −156. 71 |
| 2 Latitude (deg) | −8. 15 | 34. 05 | 29. 71 | 29. 52 | 30. 18 | 30. 00 | 30. 21 | 30. 13 | 29. 81 |
| 2 Longitude (deg) | −129. 55 | 113. 25 | 124. 93 | 130. 55 | 147. 56 | 171. 42 | 154. 68 | 162. 77 | −155. 52 |
| 3 Latitude (deg) | −17. 18 | 32. 58 | 28. 08 | 27. 84 | 28. 57 | 28. 09 | 28. 41 | 28. 22 | 27. 73 |
| 3 Longitude (deg) | −161. 96 | 106. 42 | 117. 53 | 123. 21 | 140. 06 | 163. 01 | 146. 63 | 154. 42 | −164. 75 |
| 4 Latitude (deg) | 55. 11 | 49. 88 | 46. 70 | 46. 42 | 47. 30 | 47. 68 | 47. 60 | 47. 70 | 48. 05 |
| 4 Longitude (deg) | 164. 94 | 101. 95 | 113. 64 | 119. 16 | 136. 01 | 158. 87 | 142. 40 | 150. 10 | −169. 02 |

*Support Data*—Continued

| 569 | 573 | 577 | 581 | 585 | 589 | 590 | 593 | 594 | 597 | 601 | 602 | 603 | 607 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V–32 | V–31 | V–29 | V–25 | V–24 | V–8 | V–6 | V–14 | V–15 | II–196 | IV–146 | IV–123 | I–136 | I–30 |
| 3132. 84 | 3099. 55 | 4284. 26 | 4287. 55 | 6744. 76 | 4388. 00 | 4384. 44 | 7491. 79 | 7492. 24 | 3255. 03 | 7883. 99 | 7887. 43 | 3063. 80 | 3034. 76 |
| 1396. 84 | 1363. 55 | 2548. 26 | 2551. 55 | 5008. 76 | 2652. 00 | 2648. 44 | 5755. 79 | 5756. 24 | 1519. 03 | 6147. 89 | 6151. 33 | 1327. 80 | 1298. 76 |
| 22. 60 | 26. 12 | 59. 08 | 58. 75 | 24. 01 | 58. 88 | 58. 94 | 11. 14 | 11. 13 | −8. 77 | 0. 16 | 0. 00 | −8. 11 | −9. 41 |
| −116. 73 | −113. 59 | −113. 56 | −99. 81 | −89. 35 | −81. 13 | −81. 15 | −74. 61 | −74. 61 | 100. 68 | 134. 86 | 161. 26 | 129. 35 | −161. 18 |
| 0. 16 | 0. 19 | 0. 69 | 0. 69 | 0. 34 | 0. 66 | 0. 66 | 0. 17 | 0. 17 | 0. 29 | 0. 03 | 0. 02 | 0. 35 | 0. 34 |
| 1. 08 | 1. 09 | 0. 89 | 0. 89 | 0. 57 | 0. 89 | 0. 89 | 0. 52 | 0. 52 | 1. 05 | 0. 67 | 0. 67 | 1. 11 | 1. 16 |
| 281. 07 | 280. 57 | 285. 39 | 284. 92 | 282. 67 | 286. 17 | 286. 48 | 280. 63 | 280. 55 | 218. 57 | 25. 14 | 44. 82 | 359. 70 | 240. 02 |
| 280. 70 | 280. 21 | 284. 66 | 284. 12 | 281. 77 | 285. 34 | 285. 66 | 279. 58 | 279. 50 | 236. 57 | 25. 12 | 44. 76 | --------- | --------- |
| 40. 97 | 41. 58 | 28. 01 | 25. 24 | 36. 67 | 25. 03 | 25. 09 | 34. 79 | 34. 78 | 0. 47 | 3. 73 | 2. 04 | 6. 23 | 4. 04 |
| 21. 30 | 21. 82 | 10. 97 | 9. 94 | 8. 84 | 9. 64 | 9. 66 | 7. 60 | 7. 59 | 0. 25 | 0. 82 | 0. 45 | 3. 52 | 2. 31 |
| 90. 48 | 89. 53 | 90. 98 | 89. 62 | 90. 93 | 90. 57 | 90. 91 | 93. 52 | 93. 44 | 215. 85 | 44. 84 | 64. 07 | 353. 76 | 235. 06 |
| 90. 08 | 89. 14 | 90. 22 | 88. 79 | 89. 99 | 89. 71 | 90. 05 | 92. 43 | 92. 35 | 233. 86 | 44. 82 | 64. 01 | --------- | --------- |
| 358. 68 | 359. 23 | 13. 16 | 9. 52 | 1. 59 | 9. 75 | 9. 93 | 359. 98 | 359. 95 | 177. 26 | 199. 62 | 199. 22 | 174. 06 | 174. 72 |
| 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1966 | 1967 | 1967 | 1966 | 1966 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 11 | 5 | 5 | 8 | 8 |
| 9 | 9 | 8 | 7 | 7 | 6 | 6 | 6 | 6 | 25 | 21 | 19 | 26 | 20 |
| 15 | 9 | 21 | 20 | 13 | 11 | 11 | 13 | 13 | 4 | 23 | 23 | 3 | 7 |
| 57 | 32 | 51 | 50 | 50 | 22 | 22 | 33 | 33 | 58 | 30 | 27 | 48 | 35 |
| 41. 33 | 18. 93 | 31. 43 | 19. 03 | 51. 43 | 10. 84 | 5. 44 | 27. 84 | 30. 54 | 5. 03 | 25. 03 | 53. 73 | 35. 83 | 0. 83 |
| 41. 21 | 18. 81 | 31. 31 | 18. 91 | 51. 31 | 10. 72 | 5. 32 | 27. 72 | 30. 42 | 4. 91 | 24. 91 | 53. 61 | --------- | --------- |
| 108. 88 | 108. 12 | 96. 43 | 96. 99 | 110. 25 | 97. 75 | 97. 72 | 114. 50 | 114. 50 | 70. 27 | 108. 94 | 110. 94 | 69. 56 | 67. 81 |
| 130. 18 | 129. 94 | 107. 40 | 106. 93 | 119. 09 | 107. 39 | 107. 39 | 122. 08 | 122. 08 | 70. 42 | 108. 60 | 110. 63 | 69. 91 | 69. 70 |
| 271. 25 | 270. 79 | 254. 65 | 258. 77 | 267. 80 | 259. 75 | 259. 60 | 270. 84 | 270. 85 | 272. 80 | 271. 70 | 271. 07 | 273. 67 | 276. 20 |
| 3298. 88 | 3275. 97 | 2921. 68 | 2938. 84 | 3340. 55 | 2961. 77 | 2960. 93 | 3469. 28 | 3469. 35 | 2129. 21 | 3300. 96 | 3361. 68 | 2107. 57 | 2054. 63 |
| −40. 96 | −41. 58 | −28. 00 | −25. 24 | −36. 66 | −25. 03 | −25. 09 | −34. 72 | −34. 71 | −0. 28 | 1. 56 | 1. 42 | −0. 68 | −3. 31 |
| 89. 22 | 88. 36 | 79. 39 | 81. 70 | 82. 43 | 82. 36 | 82. 30 | 87. 36 | 87. 37 | 70. 14 | 110. 12 | 112. 05 | 69. 35 | 66. 41 |
| 31. 13 | 31. 97 | 15. 48 | 13. 99 | 12. 42 | 13. 56 | 13. 60 | 10. 65 | 10. 65 | 0. 35 | 1. 14 | 0. 63 | 4. 93 | 3. 23 |
| 237. 65 | 244. 06 | 118. 26 | 106. 97 | 94. 95 | 103. 62 | 103. 92 | 81. 38 | 81. 35 | 1. 63 | 8. 75 | 4. 79 | --------- | --------- |
| 266. 05 | 261. 25 | 442. 34 | 438. 95 | 872. 35 | 455. 54 | 455. 02 | 992. 83 | 992. 88 | 251. 35 | 1017. 72 | 1017. 96 | 220. 44 | 215. 20 |
| 24. 94 | 28. 04 | 59. 34 | 59. 30 | 26. 96 | 59. 72 | 59. 85 | 14. 75 | 14. 70 | −8. 94 | 2. 79 | 1. 13 | −5. 40 | −10. 27 |
| −138. 09 | −135. 71 | −147. 20 | −129. 76 | −120. 08 | −111. 50 | −111. 66 | −102. 28 | −102. 27 | 100. 54 | 136. 09 | 162. 38 | 129. 34 | −162. 70 |
| 1607. 94 | 1578. 91 | 2673. 36 | 2652. 86 | 5272. 21 | 2753. 15 | 2749. 99 | 6000. 34 | 6000. 61 | 1519. 06 | 6150. 76 | 6152. 19 | 1332. 25 | 1300. 61 |
| 42. 23 | 44. 92 | 61. 93 | 59. 66 | 39. 81 | 52. 36 | 52. 12 | 26. 53 | 26. 50 | −32. 35 | 0. 00 | 0. 00 | −22. 45 | −29. 72 |
| −114. 58 | −111. 91 | 1. 70 | 12. 05 | −6. 09 | 38. 58 | 39. 05 | 1. 38 | 1. 20 | 73. 54 | 0. 00 | 0. 00 | 109. 03 | 173. 10 |
| 4. 04 | 7. 73 | 12. 08 | 7. 88 | −40. 38 | 2. 79 | 3. 76 | −25. 51 | −25. 61 | 17. 76 | 0. 00 | 0. 00 | 21. 25 | 12. 05 |
| −122. 17 | −119. 56 | −109. 30 | −94. 39 | −49. 43 | −74. 96 | −75. 04 | −21. 71 | −21. 59 | 79. 69 | 0. 00 | 0. 00 | 111. 21 | −178. 79 |
| −2. 24 | 0. 69 | 0. 00 | 0. 00 | 8. 69 | −2. 15 | 0. 00 | −2. 97 | −3. 02 | 15. 56 | 0. 00 | 0. 00 | 16. 63 | 7. 81 |
| −148. 15 | −145. 61 | 0. 00 | 0. 00 | −57. 86 | −111. 79 | 0. 00 | −28. 58 | −28. 56 | 123. 48 | 0. 00 | 0. 00 | 151. 72 | −144. 81 |
| 52. 39 | 54. 15 | 69. 59 | 0. 00 | 19. 55 | 67. 39 | 66. 99 | 10. 73 | 10. 69 | −34. 55 | 0. 00 | 0. 00 | −25. 98 | −31. 96 |
| −152. 55 | −150. 56 | 65. 18 | 0. 00 | −52. 98 | 88. 79 | 89. 02 | −24. 58 | −24. 58 | 124. 80 | 0. 00 | 0. 00 | 145. 33 | −145. 24 |
| 34. 11 | 37. 06 | 75. 62 | 75. 48 | 61. 14 | 76. 58 | 76. 70 | 56. 04 | 55. 97 | −17. 90 | −40. 04 | −42. 89 | −13. 02 | −18. 01 |
| −134. 84 | −132. 52 | −150. 67 | −128. 17 | −116. 75 | −110. 21 | −110. 61 | −99. 39 | −99. 33 | 97. 68 | 141. 69 | 167. 87 | 126. 48 | −165. 60 |
| 15. 30 | 18. 60 | 43. 78 | 43. 44 | −7. 97 | 43. 25 | 43. 43 | −25. 92 | −25. 99 | 0. 45 | 40. 44 | 38. 00 | 3. 11 | −2. 32 |
| −135. 96 | −133. 42 | −137. 14 | −121. 32 | −116. 62 | −102. 73 | −102. 80 | −100. 49 | −100. 51 | 98. 70 | 105. 28 | 133. 27 | 128. 13 | −163. 98 |
| 14. 62 | 17. 76 | 40. 86 | 41. 15 | −17. 88 | 40. 89 | 41. 07 | −26. 90 | −27. 05 | 0. 23 | 50. 60 | 47. 20 | 2. 68 | −2. 71 |
| −142. 96 | −140. 51 | −149. 67 | −133. 58 | −151. 60 | −115. 40 | −115. 47 | −136. 91 | −137. 18 | 103. 29 | 130. 62 | 157. 63 | 132. 23 | −160. 08 |
| 35. 15 | 37. 93 | 71. 18 | 72. 38 | 53. 92 | 73. 05 | 73. 10 | 48. 94 | 48. 89 | −18. 13 | −32. 16 | −34. 76 | −13. 43 | −18. 33 |
| −143. 03 | −140. 91 | 178. 47 | −160. 31 | 176. 01 | −145. 29 | −145. 82 | −152. 41 | −151. 54 | 102. 52 | 164. 12 | −168. 77 | 130. 51 | −161. 43 |

TABLE 2.—*Photographic*

| Plate number | 611 | 615 | 619 | 623 | 624 | 625 | 629 | 633 | 637 |
|---|---|---|---|---|---|---|---|---|---|
| Frame number | III–121 | I–102 | I–115 | I–116 | IV–99 | I–117 | II–34 | II–33 | II–75 |
| *Spacecraft* | | | | | | | | | |
| Position: | | | | | | | | | |
| Spacecraft radius (km) | 3199. 19 | 2934. 28 | 3117. 14 | 3192. 24 | 7878. 33 | 3319. 27 | 3188. 58 | 3190. 69 | 3204. 69 |
| Spacecraft altitude (km) | 1463. 19 | 1198. 28 | 1381. 14 | 1456. 24 | 6142. 23 | 1581. 27 | 1452. 58 | 1454. 69 | 1468. 69 |
| Latitude of nadir point (deg) | −12. 92 | −9. 76 | −8. 27 | −7. 54 | 0. 107 | −6. 07 | −9. 94 | −9. 92 | −9. 74 |
| Longitude of nadir point (deg) | 127. 09 | 150. 38 | 144. 23 | 148. 62 | −172. 38 | 152. 84 | 172. 30 | 174. 29 | 158. 42 |
| Orientation: | | | | | | | | | |
| Mean altitude rate (km/sec) | 0. 32 | 0. 40 | 0. 35 | 0. 32 | 0. 01 | 0. 27 | 0. 32 | 0. 32 | 0. 32 |
| Horizontal velocity (km/sec) | 1. 07 | 1. 17 | 1. 10 | 1. 07 | 0. 67 | 1. 03 | 1. 07 | 1. 07 | 1. 07 |
| Tilt azimuth (med. res.) | 181. 32 | 258. 94 | 10. 89 | 36. 86 | 293. 93 | 0. 00 | 4. 82 | 205. 19 | 181. 99 |
| Tilt azimuth (high res.) | 181. 76 | ---------- | ---------- | ---------- | 293. 95 | ---------- | 4. 94 | 207. 50 | 181. 91 |
| Emission angle (deg) | 23. 91 | 80. 92 | 12. 23 | 17. 27 | 10. 77 | 90. 00 | 30. 74 | 1. 12 | 24. 42 |
| Tilt angle (deg) | 12. 71 | 35. 75 | 6. 77 | 9. 23 | 2. 36 | 90. 00 | 16. 16 | 0. 61 | 12. 94 |
| Swing angle (deg) (med. res.) | 182. 69 | 253. 73 | 3. 93 | 30. 75 | 293. 85 | 270. 00 | 355. 34 | 201. 94 | 183. 37 |
| Swing angle (deg) (high res.) | 183. 09 | ---------- | ---------- | ---------- | 293. 86 | ---------- | 355. 47 | 204. 25 | 183. 30 |
| North deviation angle (deg) | 181. 15 | 163. 86 | 172. 89 | 172. 98 | 180. 53 | 90. 00 | 169. 81 | 176. 70 | 181. 06 |
| *Photography* | | | | | | | | | |
| Time of exposure (GMT): | | | | | | | | | |
| Year | 1967 | 1966 | 1966 | 1966 | 1967 | 1966 | 1966 | 1966 | 1966 |
| Month | 2 | 8 | 8 | 8 | 5 | 8 | 11 | 11 | 11 |
| Day | 19 | 23 | 25 | 25 | 17 | 25 | 19 | 19 | 20 |
| Hour | 19 | 16 | 0 | 0 | 23 | 7 | 6 | 2 | 10 |
| Minute | 22 | 36 | 5 | 9 | 24 | 15 | 22 | 54 | 12 |
| Second (med. res.) | 0. 33 | 23. 63 | 55. 03 | 40. 93 | 21. 33 | 0. 93 | 53. 63 | 26. 33 | 18. 03 |
| Second (high res.) | 0. 21 | ---------- | ---------- | ---------- | 21. 21 | ---------- | 53. 51 | 26. 21 | 17. 91 |
| Illumination (deg): | | | | | | | | | |
| Sun angle at nadir | 69. 86 | 60. 81 | 70. 35 | 74. 68 | 112. 87 | 82. 35 | 69. 77 | 69. 99 | 69. 98 |
| Phase angle | 69. 96 | 95. 07 | 69. 75 | 69. 75 | 115. 04 | 90. 00 | 70. 20 | 70. 22 | 70. 23 |
| Sun azimuth at principal ground point | 277. 35 | 318. 26 | 272. 60 | 271. 76 | 271. 47 | 272. 36 | 268. 09 | 273. 55 | 277. 47 |
| Sun arc at nadir | 2116. 77 | 1842. 50 | 2131. 62 | 2262. 60 | 3420. 09 | 2498. 06 | 2113. 81 | 2120. 69 | 2120. 21 |
| Alpha | −1. 22 | −80. 56 | 0. 83 | 9. 01 | −9. 88 | −90. 00 | −2. 67 | −0. 42 | −1. 57 |
| Incidence angle | 70. 63 | 21. 32 | 71. 04 | 79. 14 | 105. 12 | 75. 28 | 70. 80 | 69. 80 | 70. 64 |
| *Photographs* | | | | | | | | | |
| Tilt distance (mm) (film scale): | | | | | | | | | |
| Med. res. | 18. 00 | 57. 60 | 9. 51 | 13. 09 | 3. 29 | 1. 07 | 23. 15 | 0. 85 | 18. 35 |
| High res. | 136. 89 | ---------- | ---------- | ---------- | 25. 18 | ---------- | 177. 94 | 5. 26 | 138. 77 |
| Resolution constant (m) | 253. 80 | 348. 72 | 231. 44 | 246. 97 | 1020. 26 | 0. 00 | 259. 87 | 240. 72 | 255. 24 |
| Principal ground point: | | | | | | | | | |
| Latitude (deg) | −24. 13 | −14. 68 | −2. 92 | −1. 14 | 3. 51 | −11. 66 | 4. 59 | −10. 39 | −21. 21 |
| Longitude (deg) | 126. 81 | 104. 35 | 145. 26 | 153. 40 | 179. 92 | 152. 84 | 173. 51 | 174. 07 | 157. 99 |
| Slant distance (km) | 1533. 85 | 2107. 55 | 1398. 77 | 1492. 62 | 6166. 14 | 0. 00 | 1570. 57 | 1454. 84 | 1542. 58 |
| Corner coordinates (med. res.): | | | | | | | | | |
| 1 Latitude (deg) | −50. 80 | −46. 57 | −19. 44 | −18. 40 | 0. 00 | 0. 00 | −11. 92 | −32. 48 | −48. 59 |
| 1 Longitude (deg) | 78. 65 | 113. 57 | 125. 39 | 134. 30 | 0. 00 | 0. 00 | 153. 27 | 148. 02 | 111. 79 |
| 2 Latitude (deg) | −4. 04 | 0. 00 | 32. 87 | 35. 49 | 0. 00 | 0. 00 | 35. 80 | 14. 72 | −1. 17 |
| 2 Longitude (deg) | 109. 27 | 0. 00 | 122. 27 | 131. 32 | 0. 00 | 0. 00 | 143. 25 | 155. 06 | 140. 42 |
| 3 Latitude (deg) | −3. 52 | −0. 07 | 29. 48 | 25. 37 | 0. 00 | 0. 00 | 24. 49 | 12. 26 | −0. 68 |
| 3 Longitude (deg) | 143. 13 | 139. 64 | −179. 83 | −166. 39 | 0. 00 | 0. 00 | −153. 77 | −164. 61 | 174. 27 |
| 4 Latitude (deg) | −50. 39 | −41. 08 | −23. 83 | −23. 91 | 0. 00 | 0. 00 | −17. 24 | −34. 95 | −48. 27 |
| 4 Longitude (deg) | 174. 86 | 127. 43 | 160. 99 | 172. 83 | 0. 00 | 0. 00 | −173. 11 | −163. 11 | −156. 88 |
| Corner coordinates (high res.): | | | | | | | | | |
| 1 Latitude (deg) | −35. 85 | −16. 04 | −10. 79 | −9. 58 | −38. 26 | 0. 00 | −4. 36 | −18. 96 | −33. 02 |
| 1 Longitude (deg) | 123. 77 | 114. 41 | 142. 20 | 150. 26 | 163. 83 | 0. 00 | 169. 92 | 171. 22 | 155. 15 |
| 2 Latitude (deg) | −15. 05 | −0. 78 | 6. 48 | 9. 01 | 52. 69 | 0. 00 | 18. 92 | −1. 42 | −12. 02 |
| 2 Longitude (deg) | 124. 31 | 98. 80 | 144. 17 | 152. 33 | 154. 23 | 0. 00 | 172. 84 | 172. 39 | 155. 62 |
| 3 Latitude (deg) | −14. 96 | −5. 12 | 5. 97 | 8. 81 | 49. 97 | 0. 00 | 17. 79 | −1. 67 | −11. 92 |
| 3 Longitude (deg) | 128. 77 | 119. 74 | 148. 59 | 157. 25 | −169. 72 | 0. 00 | 178. 48 | 176. 78 | 160. 04 |
| 4 Latitude (deg) | −35. 66 | −25. 29 | −11. 29 | −10. 06 | −37. 21 | 0. 00 | −5. 08 | −19. 22 | −32. 82 |
| 4 Longitude (deg) | 130. 06 | 99. 41 | 146. 32 | 154. 66 | −170. 50 | 0. 00 | 174. 19 | 175. 98 | 161. 27 |

*Support Data*—Concluded

| 641 | 645 | 649 | 650 | 651 | 655 | 656 | 657 | 658 | 659 | 663 | 667 | 671 | 675 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I–40 | I–38 | I–37 | I–35 | I–36 | I–28 | I–39 | V–65 | V–43 | V–30 | V–26 | V–22 | V–21 | IV–51 |
| 3189. 91 | 3121. 15 | 3116. 99 | 3075. 45 | 3079. 77 | 3040. 38 | 3187. 45 | 2927. 95 | 2926. 54 | 6804. 56 | 6805. 02 | 6842. 23 | 5077. 46 | 7850. 08 |
| 1453. 91 | 1385. 15 | 1380. 99 | 1339. 45 | 1343. 77 | 1304. 38 | 1451. 45 | 1191. 95 | 1190. 54 | 5068. 56 | 5069. 02 | 5106. 23 | 3341. 46 | 6113. 98 |
| −7. 86 | −8. 59 | −8. 63 | −9. 03 | −8. 99 | −9. 39 | −7. 89 | −44. 72 | −44. 90 | −25. 33 | −25. 62 | −25. 65 | −50. 72 | −0. 19 |
| −155. 01 | −159. 54 | −159. 81 | −162. 51 | −162. 23 | −152. 92 | −155. 17 | −147. 27 | −129. 44 | −104. 74 | −90. 85 | −77. 04 | −69. 07 | −119. 45 |
| 0. 29 | 0. 31 | 0. 32 | 0. 33 | 0. 33 | 0. 34 | 0. 29 | −0. 28 | −0. 28 | −0. 33 | −0. 33 | −0. 31 | −0. 58 | 0. 00 |
| 1. 10 | 1. 13 | 1. 13 | 1. 14 | 1. 14 | 1. 16 | 1. 10 | 1. 16 | 1. 16 | 0. 56 | 0. 56 | 0. 57 | 0. 77 | 0. 67 |
| 77. 48 | 73. 28 | 72. 51 | 343. 47 | 20. 03 | 225. 44 | 77. 43 | 246. 87 | 252. 69 | 262. 37 | 259. 30 | 260. 48 | 187. 20 | 39. 98 |
| | | | | | | | 246. 48 | 252. 29 | 261. 53 | 258. 46 | 259. 65 | 187. 07 | 39. 97 |
| 13. 89 | 5. 29 | 4. 80 | 0. 58 | 0. 70 | 2. 79 | 13. 57 | 35. 00 | 35. 55 | 40. 56 | 39. 86 | 41. 31 | 56. 94 | 14. 53 |
| 7. 51 | 2. 95 | 2. 68 | 0. 42 | 0. 47 | 1. 59 | 7. 35 | 19. 88 | 20. 18 | 9. 55 | 9. 41 | 9. 64 | 16. 65 | 3. 18 |
| 73. 33 | 68. 46 | 67. 65 | 338. 19 | 14. 79 | 220. 61 | 73. 26 | 82. 93 | 90. 73 | 93. 03 | 90. 42 | 92. 07 | 25. 71 | 40. 95 |
| | | | | | | | 82. 52 | 90. 31 | 92. 15 | 89. 53 | 91. 20 | 25. 53 | 40. 94 |
| 176. 26 | 175. 44 | 175. 38 | 174. 70 | 174. 78 | 174. 99 | 176. 24 | 359. 08 | 1. 84 | 357. 33 | 356. 71 | 357. 22 | 287. 35 | 179. 51 |
| 1966 | 1966 | 1966 | 1966 | 1966 | 1966 | 1966 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 | 1967 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 5 |
| 20 | 20 | 20 | 20 | 20 | 19 | 20 | 12 | 11 | 9 | 8 | 7 | 6 | 13 |
| 14 | 14 | 14 | 14 | 14 | 17 | 14 | 11 | 3 | 2 | 1 | 0 | 17 | 23 |
| 58 | 54 | 54 | 52 | 52 | 5 | 58 | 49 | 58 | 43 | 42 | 34 | 17 | 18 |
| 9. 53 | 23. 13 | 9. 93 | 1. 03 | 14. 23 | 21. 03 | 1. 13 | 21. 83 | 21. 33 | 35. 03 | 5. 13 | 59. 73 | 6. 43 | 4. 93 |
| | | | | | | | 21. 71 | 21. 21 | 34. 91 | 5. 01 | 59. 61 | 6. 31 | 4. 81 |
| 77. 49 | 73. 03 | 72. 76 | 70. 12 | 70. 39 | 68. 67 | 77. 33 | 108. 68 | 109. 72 | 114. 39 | 115. 33 | 116. 21 | 111. 27 | 116. 88 |
| 70. 27 | 70. 27 | 70. 27 | 70. 27 | 70. 27 | 69. 70 | 70. 27 | 128. 44 | 129. 89 | 123. 92 | 124. 74 | 125. 84 | 119. 48 | 114. 83 |
| 272. 23 | 273. 65 | 273. 75 | 274. 81 | 274. 69 | 275. 84 | 272. 27 | 268. 04 | 267. 41 | 274. 78 | 274. 31 | 274. 39 | 336. 74 | 276. 19 |
| 2347. 88 | 2212. 61 | 2204. 54 | 2124. 59 | 2132. 88 | 2080. 56 | 2342. 96 | 3292. 91 | 3324. 26 | 3465. 78 | 3494. 40 | 3520. 95 | 3371. 27 | 3541. 53 |
| 13. 35 | 4. 95 | 4. 46 | −0. 27 | 0. 21 | −1. 82 | 13. 04 | −34. 79 | −35. 54 | −40. 52 | −39. 86 | −41. 28 | −33. 82 | 9. 61 |
| 83. 64 | 75. 23 | 74. 75 | 70. 00 | 70. 49 | 67. 90 | 83. 33 | 93. 64 | 94. 34 | 83. 41 | 84. 88 | 84. 56 | 87. 15 | 123. 73 |
| 10. 55 | 4. 13 | 3. 75 | 0. 58 | 0. 65 | 2. 23 | 10. 32 | 28. 87 | 29. 34 | 13. 43 | 13. 23 | 13. 56 | 23. 88 | 4. 44 |
| | | | | | | | 220. 61 | 223. 96 | 102. 60 | 101. 14 | 103. 63 | 183. 62 | 33. 95 |
| 244. 43 | 229. 72 | 228. 93 | 221. 62 | 222. 34 | 215. 97 | 243. 84 | 220. 29 | 220. 82 | 892. 08 | 890. 33 | 900. 38 | 648. 20 | 1018. 82 |
| −6. 44 | −7. 90 | −7. 98 | −8. 72 | −8. 65 | −10. 23 | −6. 49 | −48. 77 | −47. 43 | −25. 37 | −27. 23 | −26. 53 | −85. 28 | 8. 48 |
| −148. 73 | −157. 26 | −157. 76 | −162. 60 | −162. 10 | −153. 78 | −149. 05 | −168. 61 | −151. 42 | −139. 16 | −124. 91 | −112. 40 | −168. 61 | −112. 11 |
| 1477. 23 | 1388. 34 | 1383. 59. | 1339. 39 | 1343. 73 | 1305. 26 | 1473. 67 | 1331. 39 | 1334. 59 | 5391. 42 | 5380. 83 | 5441. 61 | 3917. 49 | 6157. 42 |
| −25. 34 | −26. 52 | −26. 59 | −27. 32 | −27. 24 | −29. 50 | −25. 38 | −31. 31 | −29. 28 | 38. 82 | 35. 83 | 38. 73 | −27. 95 | 0. 00 |
| −168. 32 | −178. 11 | −178. 72 | 175. 11 | 175. 77 | −177. 15 | −168. 67 | −152. 47 | −136. 14 | −68. 73 | −56. 81 | −42. 73 | −49. 77 | 0. 00 |
| 17. 58 | 15. 73 | 15. 64 | 14. 88 | 14. 95 | 11. 84 | 17. 50 | −62. 49 | −60. 13 | −44. 44 | −42. 99 | −43. 97 | 0. 00 | 0. 00 |
| −165. 36 | −173. 68 | −174. 18 | −179. 11 | −178. 60 | −169. 64 | −165. 67 | −137. 09 | −121. 25 | −31. 60 | −6. 34 | −0. 75 | 0. 00 | 0. 00 |
| 22. 16 | 15. 64 | 15. 17 | 11. 43 | 11. 76 | 8. 27 | 23. 99 | −70. 41 | −64. 05 | −20. 44 | −21. 42 | −20. 75 | 0. 00 | 0. 00 |
| −110. 44 | −133. 00 | −133. 99 | −142. 33 | −141. 55 | −135. 48 | −108. 39 | 145. 47 | 136. 64 | −71. 33 | −56. 26 | −43. 59 | 0. 00 | 0. 00 |
| −33. 92 | −31. 57 | −31. 49 | −30. 85 | −30. 91 | −32. 21 | −33. 76 | −22. 50 | −13. 35 | −9. 33 | −10. 46 | −9. 68 | −15. 35 | 0. 00 |
| −117. 48 | −135. 85 | −136. 70 | −144. 39 | −143. 64 | −135. 68 | −118. 42 | 171. 52 | −178. 41 | −75. 68 | −61. 04 | −48. 24 | −142. 12 | 0. 00 |
| −15. 01 | −16. 00 | −16. 05 | −16. 56 | −16. 51 | −17. 99 | −15. 05 | −41. 10 | −39. 61 | 10. 18 | 7. 40 | 9. 14 | −62. 45 | −30. 06 |
| −151. 49 | −160. 06 | −160. 56 | −165. 48 | −164. 98 | −156. 63 | −151. 81 | −165. 83 | −149. 22 | −135. 27 | −120. 26 | −108. 52 | −81. 28 | −120. 93 |
| 2. 70 | 0. 68 | 0. 57 | −0. 44 | −0. 34 | −2. 27 | 2. 62 | −56. 79 | −55. 22 | −60. 80 | −63. 24 | −62. 56 | −75. 75 | 66. 68 |
| −150. 26 | −158. 65 | −159. 13 | −163. 88 | −163. 40 | −155. 08 | −150. 58 | −165. 29 | −147. 44 | −139. 83 | −126. 97 | −114. 07 | 96. 14 | −127. 01 |
| 2. 68 | 0. 43 | 0. 30 | −0. 82 | −0. 71 | −2. 62 | 2. 59 | −57. 43 | −55. 92 | −48. 74 | −49. 12 | −47. 76 | −73. 49 | 64. 14 |
| −145. 56 | −154. 40 | −154. 91 | −159. 84 | −159. 33 | −151. 17 | −145. 90 | −174. 81 | −156. 39 | 165. 72 | 174. 40 | −170. 96 | 149. 48 | −69. 68 |
| −15. 44 | −16. 40 | −16. 45 | −16. 94 | −16. 89 | −18. 32 | −15. 48 | −40. 71 | −39. 16 | 7. 98 | 12. 78 | 7. 49 | −62. 50 | −30. 34 |
| −146. 79 | −155. 71 | −156. 23 | −161. 28 | −160. 76 | −152. 45 | −147. 12 | −172. 29 | −155. 82 | −161. 91 | −152. 59 | −136. 50 | −105. 31 | −98. 41 |

TABLE 3.—*Lunar Features*

| Crater | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Abenezra | 310 | IV–96–H1 | 96 |
| Abulfeda | 309 | IV–96–H2 | 78 |
| | 313 | IV–89–H2 | |
| Adams | 346 | IV–39–H1 | 98 |
| | 450 | IV–38–H3 | |
| | 523 | IV–184–H2 | |
| Agatharchides | 286 | IV–132–H1 | 93 |
| Agrippa | 210 | IV–97–H1 | 59, 60 |
| Albategnius | 305 | IV–101–H2 | 77 |
| | 309 | IV–96–H2 | |
| Alfraganus | 312 | IV–89–H3 | 78 |
| | 316 | IV–84–H3 | |
| Aliacencis | 306 | IV–101–H1 | 95, 112 |
| | 408 | IV–107–H3 | |
| | 412 | IV–100–H3 | |
| Almanon | 309 | IV–96–H2 | 96 |
| | 313 | IV–89–H2 | |
| Alpetragius | 301 | IV–108–H2 | 77, 95 |
| Alphonsus | 301 | IV–108–H2 | 77 |
| Amundsen | 484 | IV–106–H1 | |
| | 488 | IV–94–H1 | |
| | 496 | IV–70–H1 | |
| | 504 | IV–44–H1 | |
| Anaxagoras | 23 | IV–128–H2 | |
| | 27 | IV–116–H2 | |
| Anaximander | 7 | IV–176–H2 | |
| | 11 | IV–164–H2 | |
| Anaximenes | 7 | IV–176–H2 | |
| | 11 | IV–164–H2 | |
| | 15 | IV–152–H2 | |
| Angström | 76 | IV–151–H1 | 39 |
| | 80 | IV–145–H1 | |
| | 176 | IV–144–H3 | |
| Ansgarius | 239 | IV–17–M | |
| | 349 | IV–27–H2 | |
| | 525 | IV–178–M | |
| | 526 | IV–178–H1 | |
| Apianus | 306 | IV–101–H1 | 95 |
| | 310 | IV–96–H1 | |
| | 412 | IV–100–H3 | |
| Arago | 218 | IV–85–H1 | 60 |
| Aratus | 204 | IV–102–H3 | 41 |
| Archimedes | 100 | IV–115–H1 | 41 |
| | 167 | IV–157–M | |
| | 199 | IV–109–M | |
| | 200 | IV–109–H3 | |
| Archytas | 28 | IV–116–H1 | 12 |
| | 32 | IV–104–H1 | |
| Aristarchus | 76 | IV–151–H1 | 39 |
| | 167 | IV–157–M | |
| Aristoteles | 32 | IV–104–H1 | 13 |
| | 36 | IV–92–H1 | |
| Arnold | 35 | IV–92–H2 | |
| | 43 | IV–68–H2 | |
| | 510 | IV–191–H1 | |
| | 514 | IV–177–H1 | |
| Arzachel | 301 | IV–108–H2 | 95 |
| Asclepi | 410 | IV–107–H1 | 127 |
| | 414 | IV–100–H1 | |
| | 418 | IV–95–H1 | |
| | 422 | IV–88–H1 | |
| Atlas | 122 | IV–79–H3 | 27 |
| | 123 | IV–79–H2 | |
| | 511 | IV–191–H2 | |
| Azophi | 310 | IV–96–H1 | 96 |
| | 314 | IV–89–H1 | |
| Babbage | 8 | IV–176–H1 | |
| Baco | 410 | IV–107–H1 | 127 |
| | 414 | IV–100–H1 | |
| | 418 | IV–95–H1 | |
| | 486 | IV–94–H3 | |
| Baillaud | 35 | IV–92–H2 | |
| | 39 | IV–80–H2 | |
| | 43 | IV–68–H2 | |
| | 514 | IV–177–H1 | |
| Bailly | 457 | IV–193–M | 125 |
| | 461 | IV–179–M | |
| | 463 | IV–179–H2 | |
| Baily | 114 | IV–91–H3 | 13 |
| Ball | 404 | IV–112–H3 | 112 |
| Balmer | 345 | IV–39–H2 | 97 |
| | 346 | IV–39–H1 | |
| | 522 | IV–184–H1 | |
| Barocius | 413 | IV–100–H2 | 113 |
| | 417 | IV–95–H2 | |
| Barrow | 510 | IV–191–H1 | |
| Bayer | 378 | IV–155–H1 | 125 |
| Beaumont | 321 | IV–77–H2 | 96 |
| Behaim | 526 | IV–178–H1 | |
| Beila | 498 | IV–58–H3 | |
| Berosus | 519 | IV–165–H2 | |
| Bessel | 212 | IV–90–H3 | 42 |
| Bianchini | 16 | IV–152–H1 | 11 |
| | 74 | IV–151–H3 | |
| | 78 | IV–145–H3 | |
| Biela | 426 | IV–83–H1 | |
| | 430 | IV–76–H1 | |
| | 434 | IV–71–H1 | |
| Billy | 273 | IV–149–H2 | 74, 75 |
| Birmingham | 23 | IV–128–H2 | 12 |
| Birt | 298 | IV–113–H1 | 95 |
| Blagg | 206 | IV–102–H1 | 59 |
| Blancanus | 478 | IV–118–H3 | 125 |
| Blanchinus | 302 | IV–108–H1 | 95 |
| | 306 | IV–101–H1 | |
| | 408 | IV–107–H3 | |
| Boguslawsky | 491 | IV–82–H2 | |
| | 495 | IV–170–H2 | |
| Bohnenberger | 325 | IV–72–H2 | 79, 97 |
| Bonpland | 292 | IV–120–H3 | 76 |
| Borda | 326 | IV–72–H1 | 97 |
| | 330 | IV–65–H1 | |
| Boscovich | 209 | IV–97–H2 | 60 |
| Boss | 519 | IV–165–H2 | |
| Bouguer | 16 | IV–152–H1 | 11 |
| | 78 | IV–145–H3 | |
| | 503 | IV–44–H2 | |
| Boussingault | 485 | IV–94–M | |
| | 499 | IV–58–H2 | |
| | 524 | IV–184–H3 | |
| Brenner | 429 | IV–76–H2 | 114 |
| | 432 | IV–71–H3 | |
| | 433 | IV–71–H2 | |
| Breislak | 410 | IV–107–H1 | 113, 127 |
| | 414 | IV–100–H1 | |
| | 417 | IV–95–H2 | |
| Brisbane | 524 | IV–184–H3 | |
| | 528 | IV–178–H3 | |
| Buch | 417 | IV–95–H2 | 113 |
| | 420 | IV–88–H3 | |
| | 421 | IV–88–H2 | |
| Bullialdus | 289 | IV–125–H2 | 94 |
| Burckhardt | 237 | IV–54–H2 | 44 |
| | 511 | IV–191–H2 | |
| | 515 | IV–177–H2 | |
| Bürg | 115 | IV–91–H2 | 26 |
| | 116 | IV–91–H1 | |
| Büsching | 417 | IV–95–H2 | 113 |
| | 420 | IV–88–H3 | |
| | 421 | IV–88–H2 | |
| Byrd | 6 | IV–176–H3 | |
| | 26 | IV–116–H3 | |
| | 34 | IV–92–H3 | |
| Byrgius | 262 | IV–168–H1 | 92 |
| | 266 | IV–161–H1 | |
| | 368 | IV–167–H3 | |
| Campanus | 286 | IV–132–H1 | 93, 94 |
| | 392 | IV–131–H3 | |
| Capella | 324 | IV–72–H3 | 79 |

TABLE 3.—*Lunar Features*—Continued

| Crater | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Capuanus | 388 | IV–136–H3 | 111 |
| | 392 | IV–131–H3 | |
| Cardanus | 161 | IV–169–H2 | |
| Carpenter | 1 | IV–190–M | |
| Catharina | 317 | IV–84–H2 | 96 |
| Cauchy | 225 | IV–73–H2 | 61 |
| | 229 | IV–66–H2 | |
| Cavalerius | 162 | IV–169–H1 | 56 |
| | 166 | IV–162–H1 | |
| Celsius | 420 | IV–88–H3 | 113 |
| Chacornac | 220 | IV–78–H3 | 42, 43 |
| Chevallier | 515 | IV–177–H2 | 27 |
| Cichus | 392 | IV–131–H3 | 111 |
| | 396 | IV–124–H3 | |
| Clairaut | 410 | IV–107–H1 | 113, 127 |
| | 413 | IV–100–H2 | |
| Clavius | 386 | IV–142–H1 | 125, 126 |
| | 407 | IV–107–M | |
| | 457 | IV–193–M | |
| Cleomedes | 232 | IV–61–H3 | 43, 44 |
| | 237 | IV–54–H2 | |
| | 512 | IV–191–H3 | |
| Colombo | 329 | IV–65–H2 | 79 |
| | 333 | IV–60–H2 | |
| Conon | 204 | IV–102–H3 | 41 |
| Cook | 333 | IV–60–H2 | 97 |
| Copernicus | 189 | IV–126–H2 | 58 |
| | 193 | IV–121–H2 | |
| Crüger | 261 | IV–168–H2 | 74, 92 |
| | 265 | IV–161–H2 | |
| Curtius | 479 | IV–118–H2 | 126 |
| Cuvier | 406 | IV–112–H1 | 126, 127 |
| | 410 | IV–107–H1 | |
| | 482 | IV–106–H3 | |
| Cyrillus | 317 | IV–84–H2 | 78 |
| Damoiseau | 264 | IV–161–H3 | 74 |
| Darney | 221 | IV–125–H2 | 76 |
| Darwin | 261 | IV–168–H2 | 92 |
| Davy | 297 | IV–113–H2 | 77 |
| Dawes | 217 | IV–85–H2 | 42 |
| | 221 | IV–78–H2 | |
| De Gasparis | 274 | IV–149–H1 | 92 |
| Delambre | 214 | IV–90–H1 | 78 |
| | 312 | IV–89–H3 | |
| De la Rue | 44 | IV–68–H1 | |
| | 510 | IV–191–H1 | |
| | 514 | IV–177–H1 | |
| Delaunay | 306 | IV–101–H1 | 55 |
| Delisle | 80 | IV–145–H1 | 39 |
| | 84 | IV–139–H1 | |
| Delmotte | 515 | IV–177–H2 | 44 |
| Deluc | 394 | IV–131–H1 | 126 |
| | 402 | IV–119–H1 | |
| | 478 | IV–118–H3 | |
| Democritus | 515 | IV–177–H1 | 13 |
| Descartes | 313 | IV–89–H2 | 78 |
| Deslandres | 298 | IV–113–H1 | 95 |
| | 404 | IV–112–H3 | |
| Diophantus | 84 | IV–139–H1 | 39 |
| Dollond | 313 | IV–89–H2 | 78 |
| Doppelmayer | 278 | IV–143–H1 | 93 |
| | 384 | IV–142–H3 | |
| Drygalski | 460 | IV–193–H1 | |
| Eddington | 160 | IV–169–H3 | |
| Eichstadt | 254 | IV–181–H1 | |
| | 258 | IV–173–H1 | |
| Eimmart | 512 | IV–191–H3 | 44 |
| | 516 | IV–177–H3 | |
| Endymion | 44 | IV–68–H1 | |
| | 510 | IV–191–H1 | |
| | 514 | IV–177–H1 | |
| | 518 | IV–165–H1 | |
| Epigenes | 23 | IV–128–H2 | |
| | 27 | IV–116–H2 | |
| Eratosthenes | 195 | IV–114–M | 58, 76 |
| | 197 | IV–114–H2 | |
| Euclides | 284 | IV–132–H3 | 76 |
| Euler | 184 | IV–133–H3 | 39, 40 |
| Fabricius | 429 | IV–76–H2 | 114 |
| | 433 | IV–71–H2 | |
| Faraday | 409 | IV–107–H2 | 112, 113 |
| | 413 | IV–100–H2 | |
| Fermat | 314 | IV–89–H1 | 96 |
| Fernelius | 409 | IV–107–H2 | 112 |
| | 412 | IV–100–H3 | |
| Firmicus | 512 | IV–191–H3 | 62 |
| Flammarion | 300 | IV–108–H3 | 77 |
| Flamsteed | 276 | IV–143–H3 | 75 |
| Fontenelle | 23 | IV–128–H2 | 11, 12 |
| | 24 | IV–128–H1 | |
| Foucault | 12 | IV–164–H1 | 11 |
| | 16 | IV–152–H1 | |
| | 74 | IV–151–H3 | |
| Fracastorius | 322 | IV–77–H1 | 97 |
| Fra Mauro | 292 | IV–120–H3 | 76 |
| Franklin | 511 | IV–191–H2 | 27 |
| Fraunhofer | 441 | IV–59–H2 | 114 |
| Furnerius | 445 | IV–52–H2 | 114 |
| Galilaei | 165 | IV–162–H2 | 56 |
| Gambart | 194 | IV–121–H1 | 58 |
| | 198 | IV–114–H1 | |
| | 292 | IV–120–H3 | |
| Gärtner | 36 | IV–92–H1 | 13 |
| | 40 | IV–80–H1 | |
| | 510 | IV–191–H1 | |
| | 514 | IV–177–H1 | |
| Gassendi | 277 | IV–143–H2 | 93 |
| | 281 | IV–137–H2 | |
| Gauricus | 404 | IV–112–H3 | 111, 112 |
| Gauss | 515 | IV–177–H3 | |
| | 519 | IV–165–H2 | |
| Gay-Lussac | 189 | IV–126–H2 | 58 |
| | 193 | IV–121–H2 | |
| Geber | 309 | IV–96–H2 | 96 |
| | 313 | IV–89–H2 | |
| Geminus | 511 | IV–191–H2 | 27 |
| | 515 | IV–177–H2 | |
| Gemma Frisius | 416 | IV–95–H3 | 112, 113 |
| Gibbs | 526 | IV–178–H1 | |
| Gilbert | 526 | IV–178–H1 | |
| Goclenius | 333 | IV–60–H2 | 79 |
| Goddard | 241 | IV–181–H2 | |
| | 520 | IV–165–H3 | |
| Godin | 210 | IV–97–H1 | 59, 60 |
| Goldschmidt | 23 | IV–128–H2 | |
| | 27 | IV–116–H2 | |
| | 510 | IV–191–H1 | |
| Goodacre | 416 | IV–95–H3 | 113 |
| | 420 | IV–88–H3 | |
| Grimaldi | 260 | IV–168–H3 | 94 |
| | 264 | IV–161–H3 | |
| Gruemberger | 479 | IV–118–H2 | |
| Gruithuisen | 76 | IV–151–H1 | 23 |
| | 80 | IV–145–H1 | |
| Guericke | 293 | IV–120–H2 | 76 |
| | 297 | IV–113–H2 | |
| Gutenberg | 324 | IV–72–H3 | 79 |
| | 325 | IV–72–H2 | |
| | 328 | IV–65–H3 | |
| Hagecius | 422 | IV–88–H1 | 127 |
| | 426 | IV–83–H1 | |
| | 430 | IV–76–H1 | |
| Hahn | 519 | IV–165–H2 | |
| Hainzel | 385 | IV–142–H2 | 110, 111 |
| | 389 | IV–136–H2 | |
| Hale | 501 | IV–44–M | |
| Halley | 304 | IV–101–H3 | 77 |
| | 308 | IV–96–H3 | |

TABLE 3.—*Lunar Features*—Continued

| Crater | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Hansteen | 273 | IV–149–H2 | 74 |
| Hanno | 524 | IV–184–H3 | |
| | 528 | IV–178–H3 | |
| Harpalus | 16 | IV–152–H1 | 11 |
| | 66 | IV–163–H3 | |
| | 70 | IV–158–H3 | |
| Hase | 338 | IV–53–H1 | 98 |
| | 523 | IV–184–H2 | |
| Hausen | 459 | IV–193–H2 | |
| Hayn | 518 | IV–165–H1 | |
| Hecataeus | 239 | IV–17–M | |
| | 350 | IV–27–H2 | |
| | 526 | IV–178–H1 | |
| Helicon | 83 | IV–139–H2 | 24 |
| | 87 | IV–134–H2 | |
| Hell | 400 | IV–119–H3 | 112 |
| | 404 | IV–112–H3 | |
| Helmholtz | 503 | IV–44–H2 | |
| | 525 | IV–178–M | |
| | 528 | IV–178–H3 | |
| Heraclitus | 402 | IV–119–H1 | 126 |
| | 406 | IV–112–H1 | |
| | 409 | IV–107–H2 | |
| | 410 | IV–107–H1 | |
| Hercules | 122 | IV–79–H3 | 27 |
| | 123 | IV–79–H2 | |
| | 511 | IV–191–H2 | |
| Herigonius | 281 | IV–137–H2 | 75 |
| Herodotus | 167 | IV–157–M | 38, 39 |
| | 168 | IV–157–H3 | |
| Herschel | 300 | IV–108–H3 | 77 |
| Herschel, J | 11 | IV–164–H2 | 11 |
| | 12 | IV–164–H1 | |
| | 16 | IV–152–H1 | |
| Hesiodus | 294 | IV–120–H1 | 94 |
| | 400 | IV–119–H3 | |
| Hevelius | 162 | IV–169–H1 | 56 |
| | 163 | IV–162–M | |
| | 166 | IV–162–H1 | |
| Hippalus | 282 | IV–137–H1 | 93, 94 |
| | 286 | IV–132–H1 | |
| Hipparchus | 304 | IV–101–H3 | 77 |
| | 308 | IV–96–H3 | |
| Hommel | 414 | IV–100–H1 | 127 |
| | 418 | IV–95–H1 | |
| | 422 | IV–88–H1 | |
| Hooke | 515 | IV–177–H2 | 27 |
| Horrebow | 12 | IV–164–H1 | 11 |
| | 16 | IV–152–H1 | |
| | 70 | IV–158–H3 | |
| Horrocks | 206 | IV–102–H1 | 77 |
| | 304 | IV–101–H3 | |
| Hortensius | 186 | IV–133–H1 | 58 |
| | 190 | IV–126–H1 | |
| Hubble | 520 | IV–165–H3 | |
| Huggins | 401 | IV–119–H2 | 112 |
| | 405 | IV–112–H2 | |
| Humboldt | 525 | IV–178–M | |
| | 527 | IV–178–H2 | |
| Ideler | 414 | IV–100–H1 | 127 |
| | 418 | IV–95–H1 | |
| | 421 | IV–88–H2 | |
| Inghirami | 361 | IV–180–H2 | |
| | 362 | IV–180–H1 | |
| Jacobi | 402 | IV–119–H1 | 126, 127 |
| | 406 | IV–112–H1 | |
| | 410 | IV–107–H1 | |
| | 486 | IV–94–H3 | |
| Jansen | 221 | IV–78–H2 | 60, 127 |
| Jansky | 242 | IV–18–H1 | |
| | 520 | IV–165–H3 | |
| Janssen | 433 | IV–71–H2 | 113, 114 |
| Joliot-Curie | 240 | IV–18–H3 | |
| | 520 | IV–165–H3 | |
| Jules Verne | 637 | II–75–M | |
| Julius Caesar | 213 | IV–90–H2 | 60 |
| Kaiser | 409 | IV–107–H2 | 112 |
| | 412 | IV–100–H3 | |
| Kant | 317 | IV–84–H2 | 78 |
| Kapteyn | 522 | IV–184–H1 | 80 |
| Kästner | 239 | IV–17–M | |
| | 348 | IV–27–H3 | |
| | 526 | IV–178–H1 | |
| Kepler | 181 | IV–138–H2 | 57 |
| Kies | 290 | IV–125–H1 | 94 |
| Kirch | 95 | IV–122–H2 | 25 |
| | 99 | IV–115–H2 | |
| Klaproth | 479 | IV–118–H2 | |
| Klein | 305 | IV–101–H2 | 77 |
| Krafft | 161 | IV–169–H2 | |
| Krusenstern | 412 | IV–100–H3 | 95 |
| Kunowsky | 186 | IV–133–H1 | 57 |
| Lalande | 198 | IV–114–H1 | 77 |
| | 296 | IV–113–H3 | |
| Lambert | 92 | IV–127–H1 | 40 |
| | 188 | IV–126–H3 | |
| Lamé | 522 | IV–184–H1 | 80 |
| Langrenus | 336 | IV–53–H3 | 80 |
| | 337 | IV–53–H2 | |
| | 522 | IV–184–H1 | |
| Lansberg | 190 | IV–126–H1 | 58, 76 |
| | 284 | IV–132–H3 | |
| | 287 | IV–125–H3 | |
| La Pérouse | 239 | IV–17–M | |
| | 522 | IV–184–H1 | |
| | 526 | IV–178–H1 | |
| Lassell | 297 | IV–113–H2 | 77, 95 |
| Lee | 278 | IV–143–H1 | 93 |
| | 384 | IV–142–H3 | |
| Legendre | 346 | IV–39–H1 | 98 |
| | 450 | IV–38–H3 | |
| | 523 | IV–184–H2 | |
| Legentil | 463 | IV–179–H2 | |
| | 467 | IV–166–H2 | |
| Lehmann | 373 | IV–160–H2 | 110 |
| Letronne | 277 | IV–143–H2 | 75 |
| Le Verrier | 87 | IV–134–H2 | 24 |
| | 91 | IV–127–H2 | |
| Lexell | 404 | IV–112–H3 | 112 |
| | 408 | IV–107–H3 | |
| Liapunov | 520 | IV–165–H3 | |
| Licetus | 405 | IV–112–H2 | 112, 126 |
| | 406 | IV–112–H1 | |
| | 409 | IV–107–H2 | |
| Lick | 512 | IV–191–H3 | 62 |
| Lilius | 396 | IV–124–H1 | 126 |
| | 402 | IV–119–H1 | |
| | 406 | IV–112–H1 | |
| | 482 | IV–106–H3 | |
| Lindenau | 318 | IV–84–H1 | 96 |
| | 420 | IV–88–H3 | |
| | 424 | IV–83–H3 | |
| Linné | 208 | IV–97–H3 | 42 |
| Littrow | 220 | IV–78–H3 | 43 |
| Lockyer | 429 | IV–76–H2 | 114 |
| Lohrmann | 166 | IV–162–H1 | 74 |
| | 264 | IV–161–H3 | |
| Longomontanus | 386 | IV–142–H1 | 125, 126 |
| | 394 | IV–131–H1 | |
| Lubiniezky | 289 | IV–125–H2 | 94 |
| Lyot | 526 | IV–178–H3 | |
| Maclear | 213 | IV–90–H2 | 60 |
| | 217 | IV–85–H2 | |
| Macrobius | 228 | IV–66–H3 | 43 |
| | 232 | IV–61–H3 | |
| | 512 | IV–191–H3 | |
| Mädler | 321 | IV–77–H2 | 78, 79 |
| Magelhaens | 329 | IV–65–H2 | 79 |
| | 333 | IV–60–H2 | |

TABLE 3.—*Lunar Features*—Continued

| Crater | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Maginus | 401 | IV–119–H2 | 112, 126 |
| | 402 | IV–119–H1 | |
| | 405 | IV–112–H2 | |
| | 481 | IV–106–M | |
| Mairan | 71 | IV–158–H2 | 23, 60 |
| Mallet | 437 | IV–64–H2 | 114 |
| Manilius | 209 | IV–97–H2 | 59 |
| Manzinus | 485 | IV–94–M | |
| | 487 | IV–94–H2 | |
| | 491 | IV–82–H2 | |
| Maraldi | 220 | IV–78–H3 | 43 |
| | 224 | IV–73–H3 | |
| Marco Polo | 201 | IV–109–H2 | 59 |
| Marinus | 527 | IV–178–H2 | |
| Markov | 4 | IV–190–H1 | |
| Maskelyne | 222 | IV–78–H1 | 60, 61 |
| Maupertius | 78 | IV–145–H3 | 11 |
| | 82 | IV–139–H3 | |
| Maurolycus | 409 | IV–107–H2 | 112, 113 |
| | 413 | IV–100–H2 | |
| | 417 | IV–95–H2 | |
| Mercator | 213 | IV–90–H2 | 94 |
| | 286 | IV–132–H1 | |
| | 396 | IV–124–H3 | |
| Mercurius | 515 | IV–177–H2 | |
| Mersenius | 274 | IV–149–H1 | 93 |
| Messala | 511 | IV–191–H2 | 27 |
| | 515 | IV–177–H2 | |
| Messier | 332 | IV–60–H3 | 79 |
| Metius | 433 | IV–71–H2 | 114 |
| | 437 | IV–64–H2 | |
| Meton | 31 | IV–104–H2 | |
| | 35 | IV–92–H2 | |
| | 510 | IV–191–H1 | |
| Milichius | 185 | IV–133–H2 | 57 |
| Miller | 304 | IV–101–H3 | 112 |
| | 405 | IV–112–H2 | |
| | 409 | IV–107–H2 | |
| Monge | 329 | IV–65–H2 | 97 |
| | 333 | IV–60–H2 | |
| Moretus | 479 | IV–118–H2 | |
| | 481 | IV–106–M | |
| | 525 | IV–178–H1 | |
| Mösting | 202 | IV–109–H1 | 77 |
| | 296 | IV–113–H3 | |
| | 300 | IV–108–H3 | |
| Mutus | 490 | IV–82–H3 | 127 |
| Nasireddin | 405 | IV–112–H2 | 112 |
| | 409 | IV–107–H2 | |
| Neander | 432 | IV–71–H3 | 97 |
| Nearch | 422 | IV–88–H1 | 127 |
| Neper | 520 | IV–165–H3 | |
| Neumayer | 503 | IV–44–H2 | |
| Newton | 479 | IV–118–H2 | |
| Nicolai | 417 | IV–95–H2 | 113 |
| | 421 | IV–88–H2 | |
| | 425 | IV–83–H2 | |
| Nöggerath | 374 | IV–160–H1 | 110, 125 |
| | 378 | IV–155–H1 | |
| Nonius | 408 | IV–107–H3 | 112 |
| | 412 | IV–100–H3 | |
| Oenopides | 4 | IV–190–H1 | |
| | 54 | IV–183–H3 | |
| | 58 | IV–175–H3 | |
| Oken | 523 | IV–184–H2 | |
| | 527 | IV–178–H2 | |
| Orontius | 401 | IV–119–H2 | 112 |
| | 405 | IV–112–H2 | |
| Pallas | 202 | IV–109–H1 | 59 |
| Parrot | 305 | IV–101–H2 | 77 |
| Parry | 194 | IV–120–H3 | 76 |
| Pascal | 3 | IV–190–H2 | |
| | 7 | IV–176–H2 | |
| Peary | 22 | IV–128–H3 | |
| | 26 | IV–116–H3 | |
| | 34 | IV–92–H3 | |
| Peirce | 236 | IV–54–H3 | 44 |
| | 512 | IV–191–H3 | |
| Peirescius | 445 | IV–52–H2 | |
| | 524 | IV–184–H3 | |
| Petavius | 338 | IV–53–H1 | 98 |
| | 523 | IV–184–H2 | |
| Philolaus | 1 | IV–190–M | |
| | 11 | IV–164–H2 | |
| | 15 | IV–152–H2 | |
| Phillips | 523 | IV–184–H2 | |
| | 527 | IV–178–H2 | |
| Picard | 236 | IV–54–H3 | 62 |
| | 512 | IV–191–H3 | |
| Piccolomini | 322 | IV–77–H1 | 96, 97 |
| | 428 | IV–76–H3 | |
| Pickering | 210 | IV–97–H1 | 77 |
| | 308 | IV–96–H3 | |
| Pictet | 401 | IV–119–H2 | 112 |
| | 405 | IV–112–H2 | |
| Pitatus | 294 | IV–120–H1 | 94 |
| | 400 | IV–119–H3 | |
| | 404 | IV–112–H3 | |
| Pitiscus | 418 | IV–95–H1 | 113, 127 |
| | 422 | IV–88–H1 | |
| Plana | 115 | IV–91–H2 | 26 |
| | 116 | IV–91–H1 | |
| Plato | 24 | IV–128–H1 | 12 |
| | 86 | IV–134–H3 | |
| | 94 | IV–122–H3 | |
| | 187 | IV–126–M | |
| Playfair | 306 | IV–101–H1 | 95 |
| | 310 | IV–96–H1 | |
| Plinius | 217 | IV–85–H2 | 60 |
| Plutarch | 516 | IV–177–H3 | |
| | 520 | IV–165–H3 | |
| Poisson | 416 | IV–95–H3 | 95 |
| Polybius | 318 | IV–84–H1 | 96 |
| Pontanus | 310 | IV–96–H1 | 96 |
| | 314 | IV–89–H1 | |
| Poncelet | 2 | IV–190–H3 | |
| | 3 | IV–190–H2 | |
| | 7 | IV–176–H2 | |
| Pontécoulant | 438 | IV–64–H1 | |
| | 524 | IV–184–H3 | |
| | 528 | IV–178–H3 | |
| | 637 | IV–184–H3 | |
| Prinz | 76 | IV–151–H1 | 39 |
| | 176 | IV–144–H3 | |
| Proclus | 229 | IV–66–H2 | 43, 61 |
| | 233 | IV–61–H2 | |
| Proctor | 401 | IV–119–H2 | 112 |
| | 405 | IV–112–H2 | |
| Protagoras | 28 | IV–116–H1 | 12 |
| | 32 | IV–104–H1 | |
| | 98 | IV–115–H3 | |
| Ptolemaeus | 300 | IV–108–H3 | 77 |
| | 301 | IV–108–H2 | |
| | 304 | IV–101–H3 | |
| Purbach | 302 | IV–108–H1 | 95 |
| | 408 | IV–107–H3 | |
| Pythagoras | 3 | IV–190–H2 | |
| | 7 | IV–176–H2 | |
| | 8 | IV–176–H1 | |
| Pytheas | 188 | IV–126–H3 | 40 |
| Rabbi Levi | 420 | IV–88–H3 | 113 |
| | 424 | IV–83–H3 | |
| Regiomontanus | 302 | IV–108–H1 | 95 |
| | 408 | IV–107–H3 | |
| Reichenbach | 330 | IV–65–H1 | 97 |
| | 334 | IV–60–H1 | |

TABLE 3.—*Lunar Features*—Continued

| Crater | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Reiner | 170 | IV–157–H1 | 56 |
| Reinhold | 190 | IV–126–H1 | 58 |
| Repsold | 50 | IV–189–H3 | |
| Rhaeticus | 206 | IV–102–H1 | 59, 77 |
| | 210 | IV–97–H1 | |
| Rheita | 433 | IV–71–H2 | 114 |
| | 436 | IV–64–H3 | |
| Riccioli | 256 | IV–173–H3 | |
| | 260 | IV–168–H3 | |
| Riccius | 421 | IV–88–H2 | 113 |
| | 424 | IV–83–H3 | |
| Römer | 224 | IV–73–H3 | 43 |
| Rosenberger | 422 | IV–88–H1 | 127 |
| | 430 | IV–76–H1 | |
| | 494 | IV–70–H3 | |
| Ross | 217 | IV–85–H2 | 60 |
| Rothmann | 318 | IV–84–H1 | 96 |
| | 424 | IV–83–H3 | |
| | 428 | IV–76–H3 | |
| Rutherfurd | 474 | IV–130–H3 | 126 |
| | 478 | IV–118–H3 | |
| Sabine | 218 | IV–85–H1 | 60 |
| Sacrobosco | 310 | IV–96–H1 | 96 |
| | 314 | IV–89–H1 | |
| Santbech | 329 | IV–65–H2 | 97 |
| | 330 | IV–65–H1 | |
| Sasserides | 401 | IV–119–H2 | 112 |
| | 405 | IV–112–H2 | |
| Saussure | 401 | IV–119–H2 | 112 |
| | 405 | IV–112–H2 | |
| Scheiner | 386 | IV–142–H2 | 125 |
| Schickard | 369 | IV–167–H2 | 110 |
| | 377 | IV–155–H2 | |
| | 461 | IV–179–M | |
| Schiller | 374 | IV–160–H1 | 125 |
| | 378 | IV–155–H1 | |
| | 461 | IV–179–M | |
| Schlüter | 252 | IV–181–H3 | 59 |
| Schomberger | 483 | IV–106–H2 | |
| | 491 | IV–82–H2 | |
| Schröter | 202 | IV–109–H1 | 59 |
| Schumacher | 515 | IV–177–H3 | |
| Scoresby | 22 | IV–128–H3 | |
| | 30 | IV–104–H3 | |
| | 34 | IV–92–H3 | |
| Scott | 484 | IV–106–H1 | |
| | 496 | IV–70–H1 | |
| Seleucus | 160 | IV–169–H3 | 38 |
| Seneca | 516 | IV–177–H3 | |
| | 520 | IV–165–H3 | |
| Sharp | 71 | IV–158–H2 | 23 |
| Simpelius | 428 | IV–141–H2 | |
| | 487 | IV–94–H2 | |
| Snellius | 334 | IV–60–H1 | 98 |
| | 338 | IV–53–H1 | |
| | 440 | IV–59–H3 | |
| Sosigenes | 213 | IV–90–H2 | 60 |
| Spallanzani | 417 | IV–95–H2 | 113 |
| | 421 | IV–88–H2 | |
| Stadius | 193 | IV–121–H2 | 58 |
| | 197 | IV–114–H2 | |
| Steinheil | 430 | IV–76–H1 | |
| | 433 | IV–71–H2 | |
| Stevinus | 440 | IV–59–H3 | 98, 114 |
| Stiborius | 424 | IV–83–H3 | 113 |
| Stöfler | 409 | IV–107–H2 | 112 |
| | 413 | IV–100–H2 | |
| Strabo | 44 | IV–68–H1 | |
| | 510 | IV–191–H1 | |
| | 514 | IV–177–H1 | |
| Street | 401 | IV–119–H2 | 112 |
| Struve | 153 | IV–182–H2 | |
| Tannerus | 410 | IV–107–H1 | 127 |
| | 414 | IV–100–H1 | |
| Taruntius | 512 | IV–191–H3 | 61 |
| Thales | 514 | IV–177–H1 | |
| Thebit | 298 | IV–113–H1 | 95 |
| | 302 | IV–108–H1 | |
| Theophilus | 317 | IV–84–H2 | 78 |
| | 321 | IV–77–H2 | |
| Timaeus | 28 | IV–116–H1 | 12 |
| Timocharis | 96 | IV–122–H1 | 40 |
| | 192 | IV–121–H3 | |
| | 196 | IV–114–H3 | |
| Tobias Mayer | 185 | IV–133–H2 | 57, 58 |
| Torricelli | 320 | IV–77–H3 | 78 |
| Triesnecker | 206 | IV–102–H1 | 59 |
| Tsiolkovsky | 603 | I–136–M | |
| | 612 | III–121–H1 | |
| | 613 | III–121–H2 | |
| | 625 | I–117–M | |
| Tycho | 397 | IV–124–H2 | 111, 112 |
| | 401 | IV–119–H2 | |
| Ukert | 205 | IV–102–H2 | 59 |
| | 206 | IV–102–H1 | |
| Ulugh Beigh | 52 | IV–189–H1 | |
| | 56 | IV–183–H1 | |
| Vega | 441 | IV–59–H2 | |
| | 445 | IV–52–H2 | |
| | 523 | IV–184–H2 | |
| | 524 | IV–184–H3 | |
| Vendelinus | 337 | IV–53–H2 | 98 |
| | 522 | IV–184–H1 | |
| Vieta | 266 | IV–161–H1 | 92 |
| | 372 | IV–160–H3 | |
| | 376 | IV–155–H3 | |
| Vitello | 278 | IV–143–H1 | 93, 110 |
| | 384 | IV–142–H3 | |
| | 388 | IV–136–H3 | |
| Vitruvius | 221 | IV–78–H2 | 43 |
| Vlacq | 422 | IV–88–H1 | 127 |
| | 426 | IV–83–H1 | |
| | 430 | IV–76–H1 | |
| | 494 | IV–70–H3 | |
| Walter | 408 | IV–107–H3 | 95, 112 |
| | 412 | IV–100–H3 | |
| Watt | 430 | IV–76–H1 | |
| | 433 | IV–71–H2 | |
| | 434 | IV–71–H1 | |
| Webb | 522 | IV–184–H1 | 80 |
| Werner | 408 | IV–107–H3 | 95, 112 |
| | 412 | IV–100–H3 | |
| Whewell | 214 | IV–90–H1 | 60 |
| Wilhelm | 389 | IV–136–H2 | 111 |
| | 393 | IV–131–H2 | |
| Wohler | 425 | IV–83–H2 | 113 |
| Yerkes | 233 | IV–61–H2 | 62 |
| | 512 | IV–191–H3 | |
| Young | 441 | IV–59–H2 | 62, 114 |
| Zach | 402 | IV–119–H1 | 126 |
| | 406 | IV–112–H1 | |
| | 482 | IV–106–H3 | |
| Zagut | 318 | IV–84–H1 | 96, 113 |
| | 420 | IV–88–H3 | |
| | 424 | IV–83–H3 | |
| Zeno | 515 | IV–177–H2 | |
| Zöllner | 312 | IV–89–H3 | 78 |
| | 316 | IV–84–H3 | |
| Zucchius | 370 | IV–167–H1 | 125 |

TABLE 3.—*Lunar Features*—Concluded

| Maria | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Mare Aestuum | 407 | IV–107–M | |
| Mare Anguis | 516 | IV–177–H3 | 44 |
| Mare Australe | 239 | IV–17–M | |
| | 443 | IV–52–M | |
| Mare Crisium | 89 | IV–127–M | 44, 62 |
| | 109 | IV–98–M | |
| | 117 | IV–86–M | |
| | 331 | IV–60–M | |
| Mare Fecunditatis | 315 | IV–84–M | 61, 62 |
| | 423 | IV–83–M | |
| | 431 | IV–71–M | |
| | 443 | IV–52–M | |
| Mare Frigoris | 9 | IV–164–M | 11, 12 |
| | 13 | IV–152–M | |
| | 17 | IV–140–M | |
| | 81 | IV–139–M | |
| Mare Humboldtianum | 13 | IV–152–M | |
| | 141 | IV–23–M | |
| | 518 | IV–165–H1 | |
| | 537 | V–181–M | |
| Mare Humorum | 367 | IV–167–M | 93 |
| | 375 | IV–155–M | |
| | 383 | IV–142–M | |
| | 387 | IV–136–M | |
| Mare Imbrium | 81 | IV–139–M | 11, 24 |
| | 85 | IV–134–M | |
| | 93 | IV–122–M | |
| | 179 | IV–138–M | |
| Mare Marginis | 601 | IV–146–M | |
| Mare Moscoviense | 549 | V–124–M | |
| | 561 | V–85–M | |
| | 624 | IV–99–M | |
| | 629 | II–34–M | |
| Mare Nectaris | 307 | IV–96–M | 78, 79 |
| | 315 | IV–84–M | |
| | 323 | IV–72–M | |
| | 415 | IV–95–M | |
| Mare Nubium | 179 | IV–138–M | 94 |
| | 183 | IV–133–M | |
| | 395 | IV–124–M | |
| | 407 | IV–107–M | |
| Oceanus Procellarum | 53 | IV–183–M | 23, 38 |
| | 151 | IV–182–M | |
| | 159 | IV–169–M | |
| | 171 | IV–150–M | |
| Mare Orientale | 151 | IV–182–M | |
| | 247 | IV–187–M | |
| | 351 | IV–194–M | |
| | 355 | IV–186–M | |
| Mare Serenitatis | 13 | IV–152–M | 26, 41 |
| | 191 | IV–121–M | |
| | 195 | IV–114–M | |
| | 203 | IV–102–M | |
| Mare Smythii | 239 | IV–17–M | |
| | 443 | IV–52–M | |
| | 597 | II–191–M | |
| | 601 | IV–146–M | |
| Mare Tranquillitatis | 93 | IV–122–M | 60, 61 |
| | 203 | IV–102–M | |
| | 307 | IV–96–M | |
| | 407 | IV–107–M | |
| Mare Vaporum | 191 | IV–121–M | 41, 59 |
| | 195 | IV–114–M | |
| | 199 | IV–109–M | |
| | 203 | IV–102–M | |

| Lakes, marshes | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Lacus Mortis | 115 | IV–91–H2 | 26 |
| | 116 | IV–91–H1 | |
| Lacus Somniorum | 113 | IV–91–M | 26, 27 |
| Palus Somni | 220 | IV–66–H2 | 61 |

| Gulfs | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Sinus Aestuum | 179 | IV–138–M | 59 |
| | 187 | IV–126–M | |
| | 191 | IV–121–M | |
| | 195 | IV–114–M | |
| Sinus Iridum | 17 | IV–140–M | 24 |
| | 85 | IV–134–M | |
| | 93 | IV–122–M | |
| | 175 | IV–144–M | |
| Sinus Medii | 199 | IV–109–M | 59, 77 |
| | 403 | IV–112–M | |
| Sinus Roris | 9 | IV–164–M | 11, 12 |
| | 57 | IV–175–M | |
| | 69 | IV–158–M | |
| | 77 | IV–145–M | |

| Mountains | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Montes Alps | 94 | IV–122–H3 | 25 |
| Montes Haemus | 208 | IV–97–H3 | 41, 42 |
| | 209 | IV–97–H2 | |
| Montes Spitzbergen | 100 | IV–115–H1 | 25 |
| Montes Teneriffe | 95 | IV–122–H2 | 24, 25 |

| Capes, promontories | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Promontory Heraclides | 83 | IV–139–H2 | 24 |
| Promontory Laplace | 83 | IV–139–H2 | 24 |

| Valleys | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Vallis Alpes | 32 | IV–104–H1 | 12 |
| | 98 | IV–115–H3 | |
| Vallis Schroteri | 72 | IV–158–H1 | 38, 39 |
| | 168 | IV–157–H3 | |

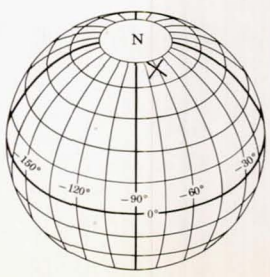
| Clefts | Plate number | Photo number | LAC chart |
|---|---|---|---|
| Rima Ariadaeus | 210 | IV–97–H1 | 60 |
| Rima Aristarchus | 72 | IV–158–H1 | 39 |
| Rima Bradley | 200 | IV–109–H3 | 41 |
| Rima Hyginus | 210 | IV–97–H1 | 59 |
| Rima Plato | 94 | IV–122–H3 | 12 |
| | 98 | IV–115–H3 | |

# Photographic Atlas

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| CARPENTER | G6 |
| MARE FRIGORIS | K6 |
| MARE IMBRIUM | K8 |
| PHILOLAUS | H6 |
| PLATO | K6 |
| SINUS RORIS | H9 |

1 CENTIMETER ≈ 106 KILOMETERS

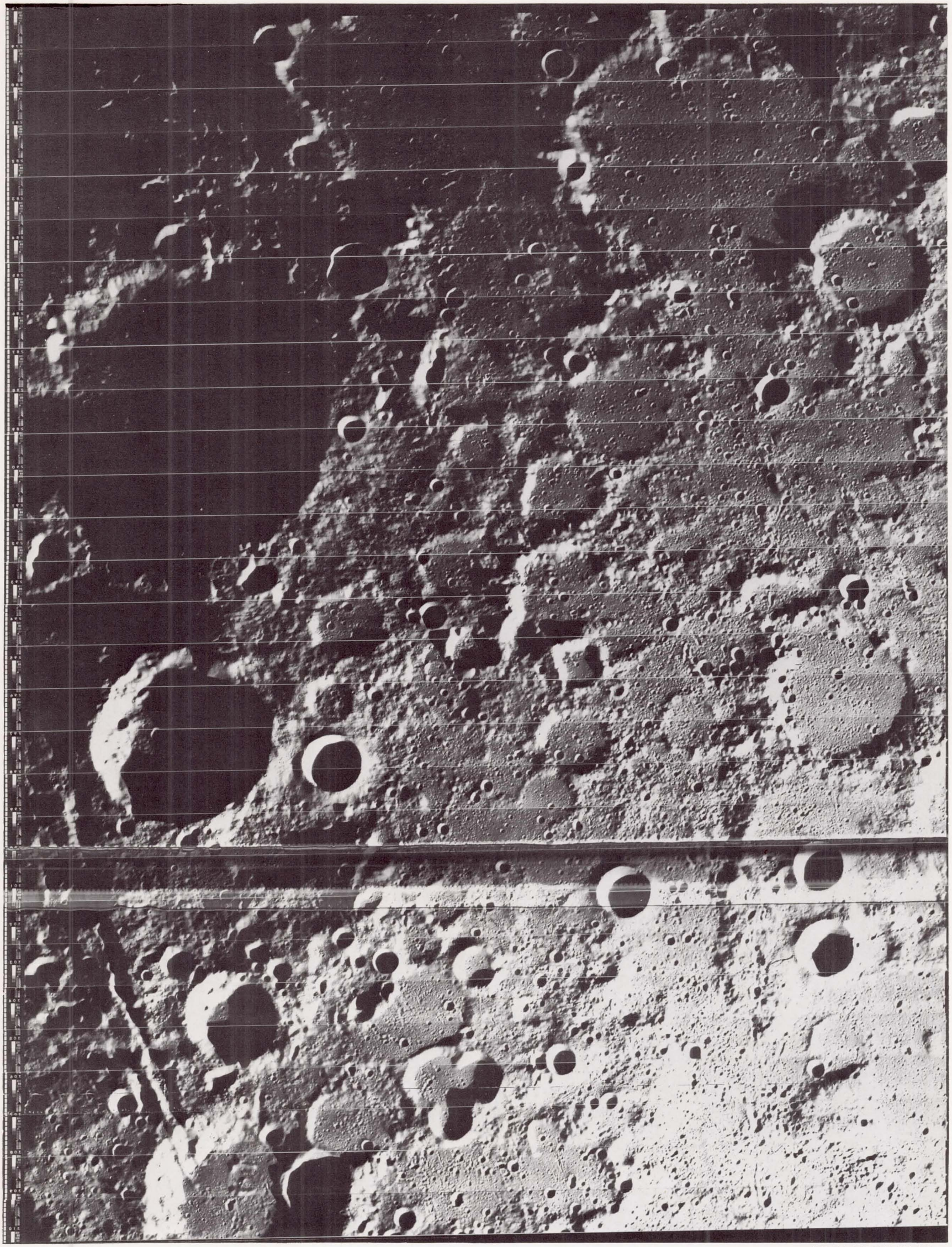
N

PHOTO NO. IV-190-M

| | |
|---|---|
| CENTER COORDINATES ... LONG. | —63.47 |
| LAT. | 70.33 |
| NORTH DEVIATION (DEG.) | 352.33 |
| SUN ANGLE | 76.5 |
| SPACECRAFT ALTITUDE (KM) | 3373.41 |

PLATE 1

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-190-H3

CENTER COORDINATES ... LONG.—63.48
LAT. 70.33
NORTH DEVIATION (DEG.) ..... 352.34
SUN ANGLE ..... 76.5
SPACECRAFT ALTITUDE (KM) .. 3373.38

N

1 CENTIMETER ≈ 14 KILOMETERS

PONCELET ... K15

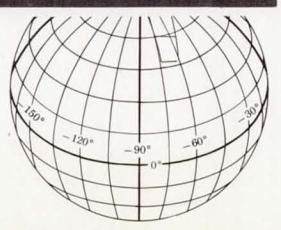
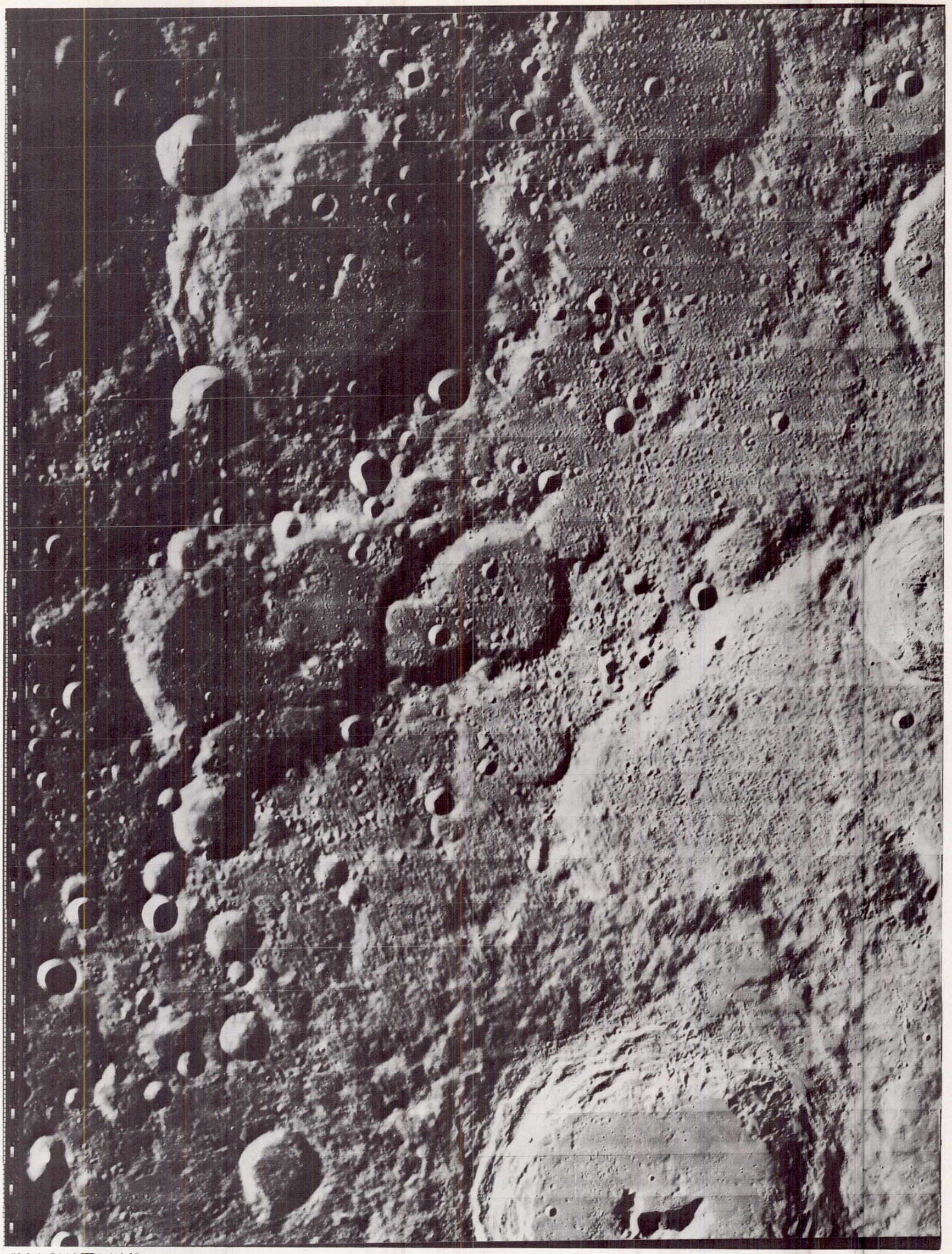
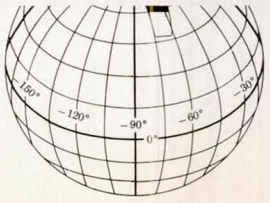



PLATE 2

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






DESARGUES ..... C9
PASCAL ..... E1
PYTHAGORAS .. J15

1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-190-H2

CENTER COORDINATES ... LONG.—63.48
LAT. 70.33
NORTH DEVIATION (DEG.) .... .. 352.34
SUN ANGLE ..... 76.5
SPACECRAFT ALTITUDE (KM) .. 3373.38

PLATE 3

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-190-H1

CENTER COORDINATES ... LONG.—63.48
LAT. 70.33
NORTH DEVIATION (DEG.) ..... 352.34
SUN ANGLE ..... 76.5
SPACECRAFT ALTITUDE (KM) .. 3373.38

N

1 CENTIMETER ≈ 14 KILOMETERS

MARKOV ..... C11
OENOPIDES ..... D7

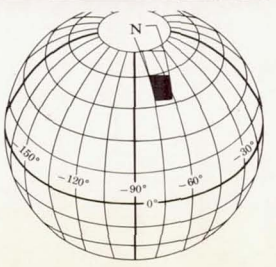
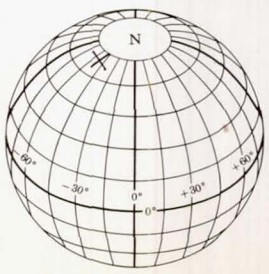



PLATE 4

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈106 KILOMETERS

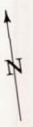
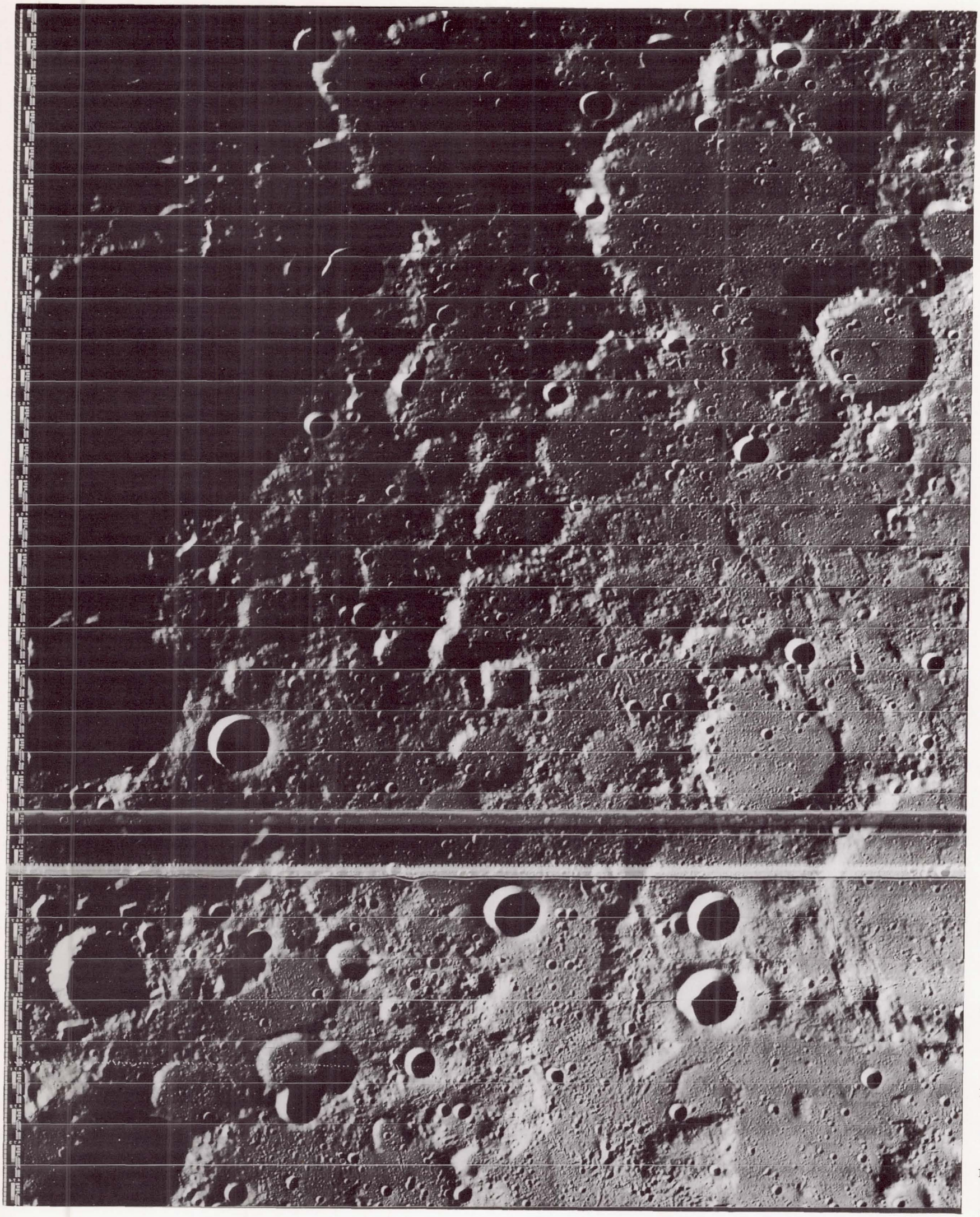



PHOTO NO. IV-176-M

CENTER COORDINATES ..... LONG.–54.77
LAT. 69.96
NORTH DEVIATION (DEG.) ..... 352.19
SUN ANGLE ..... 77.2
SPACECRAFT ALTITUDE (KM) ..... 3353.99

PLATE 5

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-176-H3

CENTER COORDINATES ..... LONG.–54.78
LAT. 69.96
NORTH DEVIATION (DEG.) ..... 352.19
SUN ANGLE ..... 77.2
SPACECRAFT ALTITUDE (KM) ..... 3353.96

N

1 CENTIMETER ≈ 14 KILOMETERS

BYRD ..... D3
MOUCHEZ ....A12

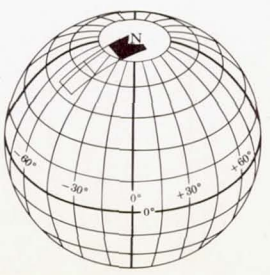
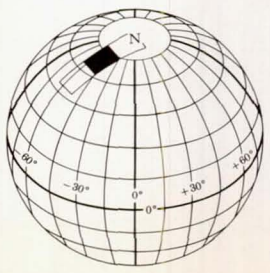



PLATE 6

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ANAXIMANDER .... K12
ANAXIMENES ..... L5
CARPENTER ..... J9
DESARGUES ..... A8
PONCELET ..... G2
PASCAL ..... B4
PYTHAGORAS ..... D15

1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-176-H2

CENTER COORDINATES ..... LONG.–54.78
LAT. 69.96
NORTH DEVIATION (DEG.) ..... 352.19
SUN ANGLE ..... 77.2
SPACECRAFT ALTITUDE (KM) ..... 3353.96

PLATE 7

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-176-H1
CENTER COORDINATES ..... LONG.–54.78
LAT. 69.96
NORTH DEVIATION (DEG.) ..... 352.19
SUN ANGLE ..... 77.2
SPACECRAFT ALTITUDE (KM) ..... 3353.96

N

1 CENTIMETER≈14 KILOMETERS

BABBAGE ..... E5
PYTHAGORAS .... H1

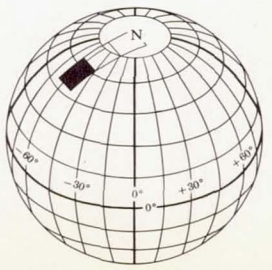
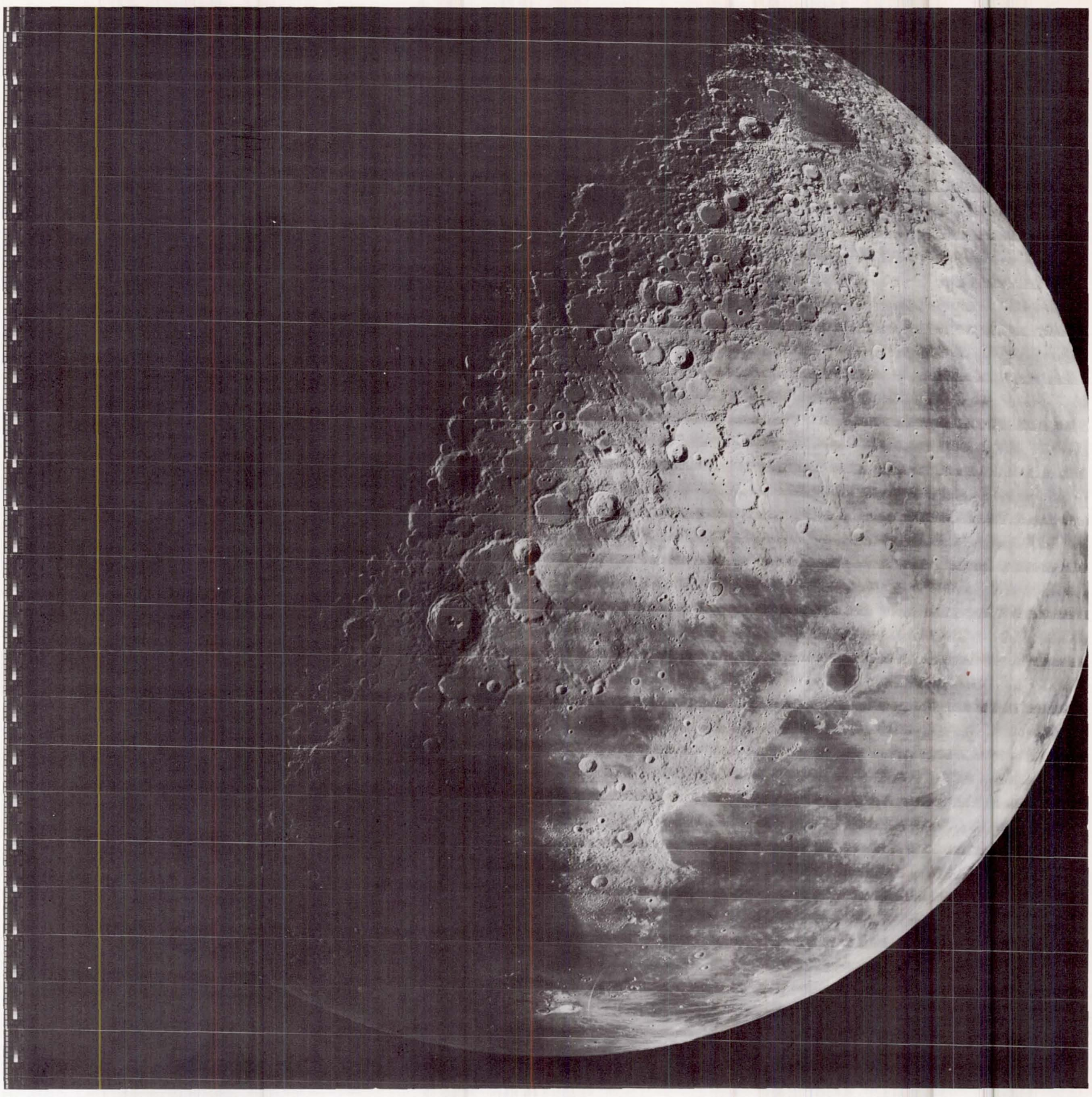
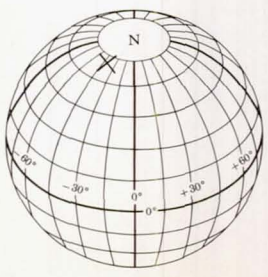



PLATE 8

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... H8
MARE IMBRIUM ..... J10
OCEANUS PROCELLARUM ..... F11
SINUS RORIS ..... F9

1 CENTIMETER≈106 KILOMETERS

N

PHOTO NO. IV-164-M

CENTER COORDINATES ..... LONG.–41.49
LAT. 70.20
NORTH DEVIATION (DEG.) ..... 351.70
SUN ANGLE ..... 77.1
SPACECRAFT ALTITUDE (KM) ..... 3345.84

PLATE 9

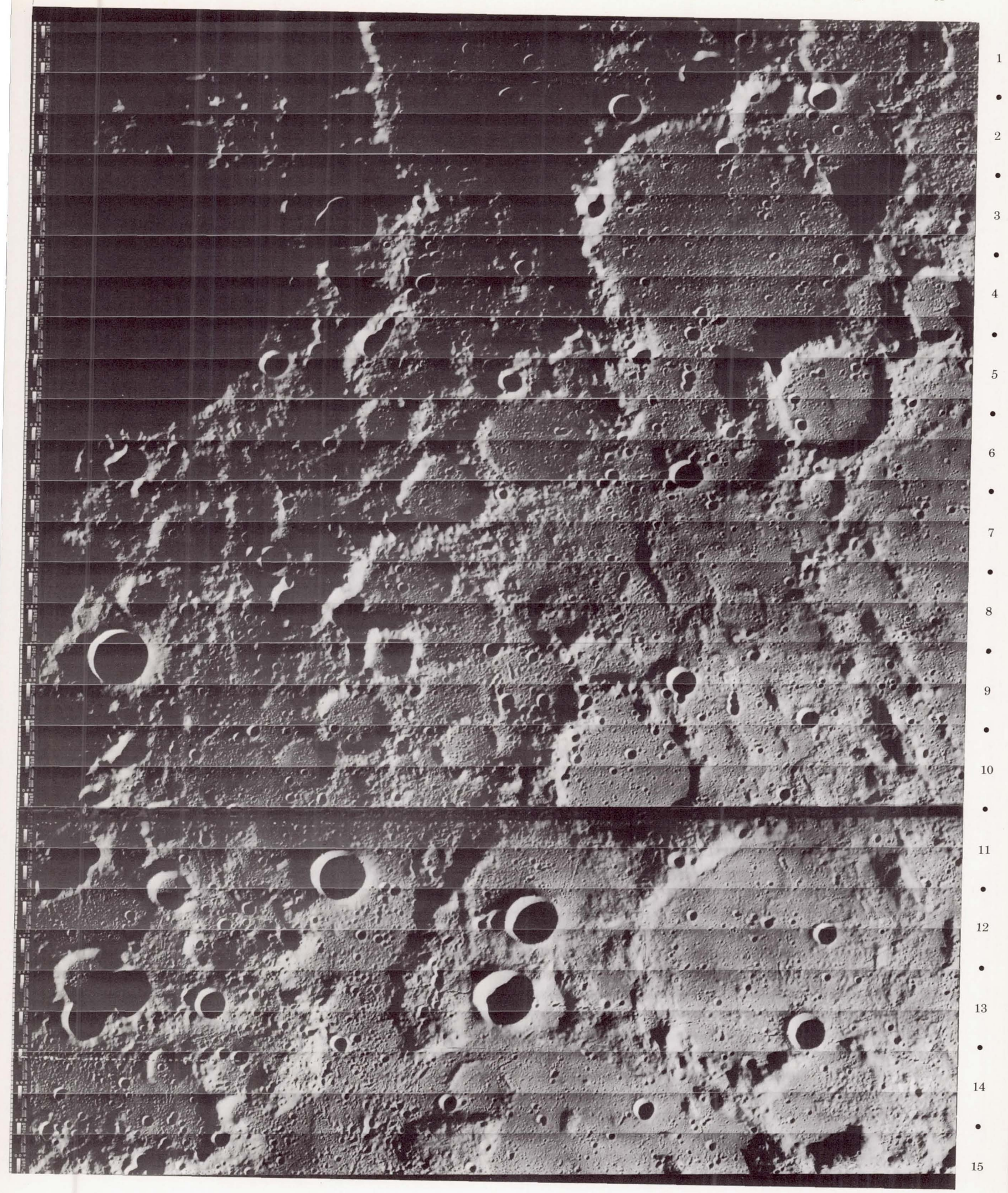



PHOTO NO. IV-164-H3

CENTER COORDINATES ..... LONG.—41.49
LAT. 70.19
NORTH DEVIATION (DEG) ..... 351.71
SUN ANGLE ..... 77.1
SPACECRAFT ALTITUDE (KM) ..... 3345.81

N

1 CENTIMETER≈14 KILOMETERS

BYRD ..... D3
MOUCHEZ .. C12

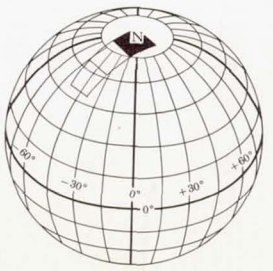
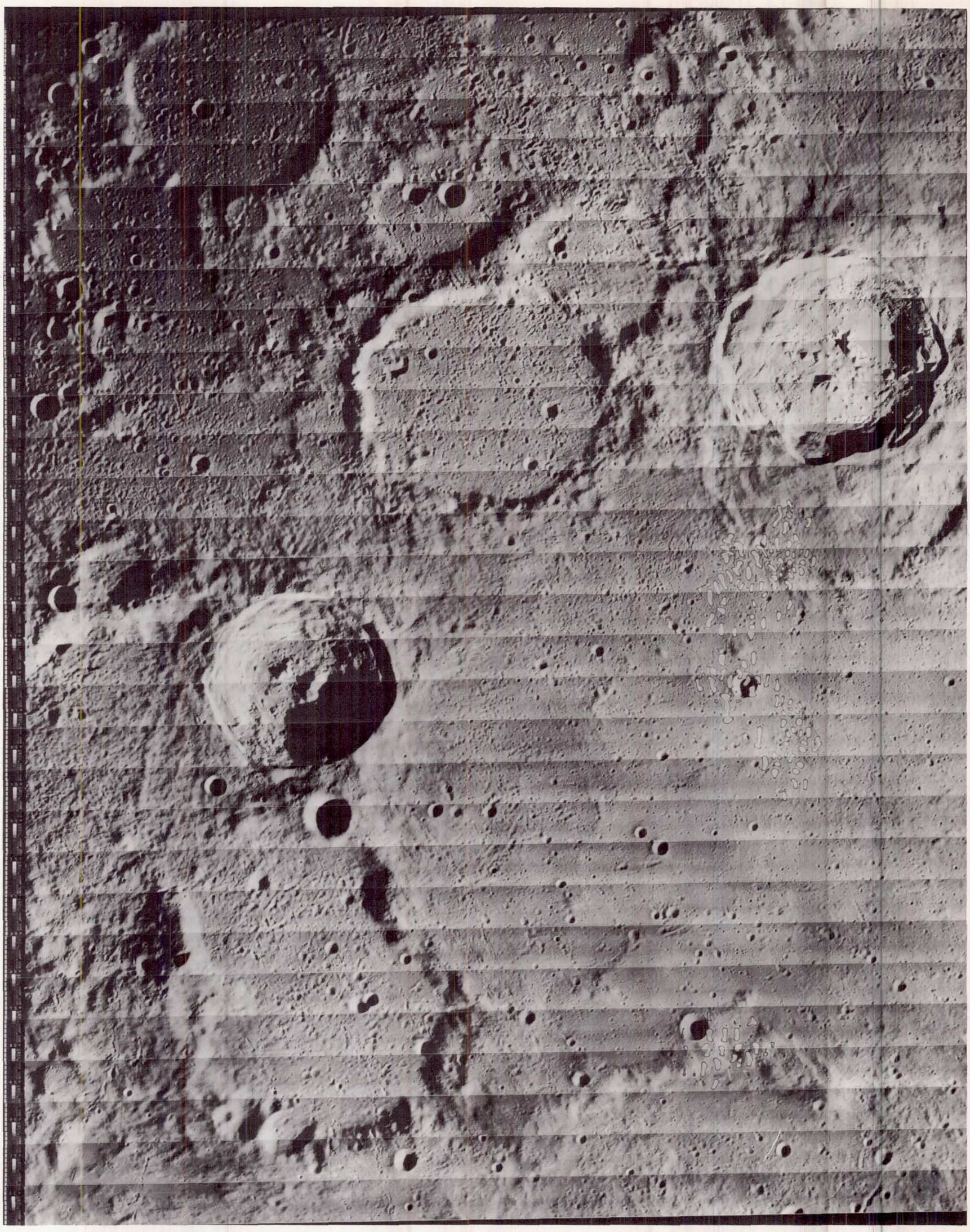
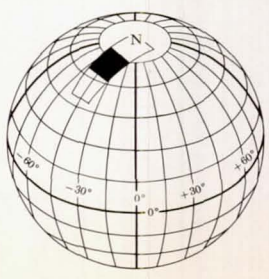



PLATE 10

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ANAXIMANDER .. D13
ANAXIMENES ..... F5
CARPENTER ..... D9
J. HERSCHEL ..... J15
PONCELET ..... C2
PHILOLAUS ..... L5

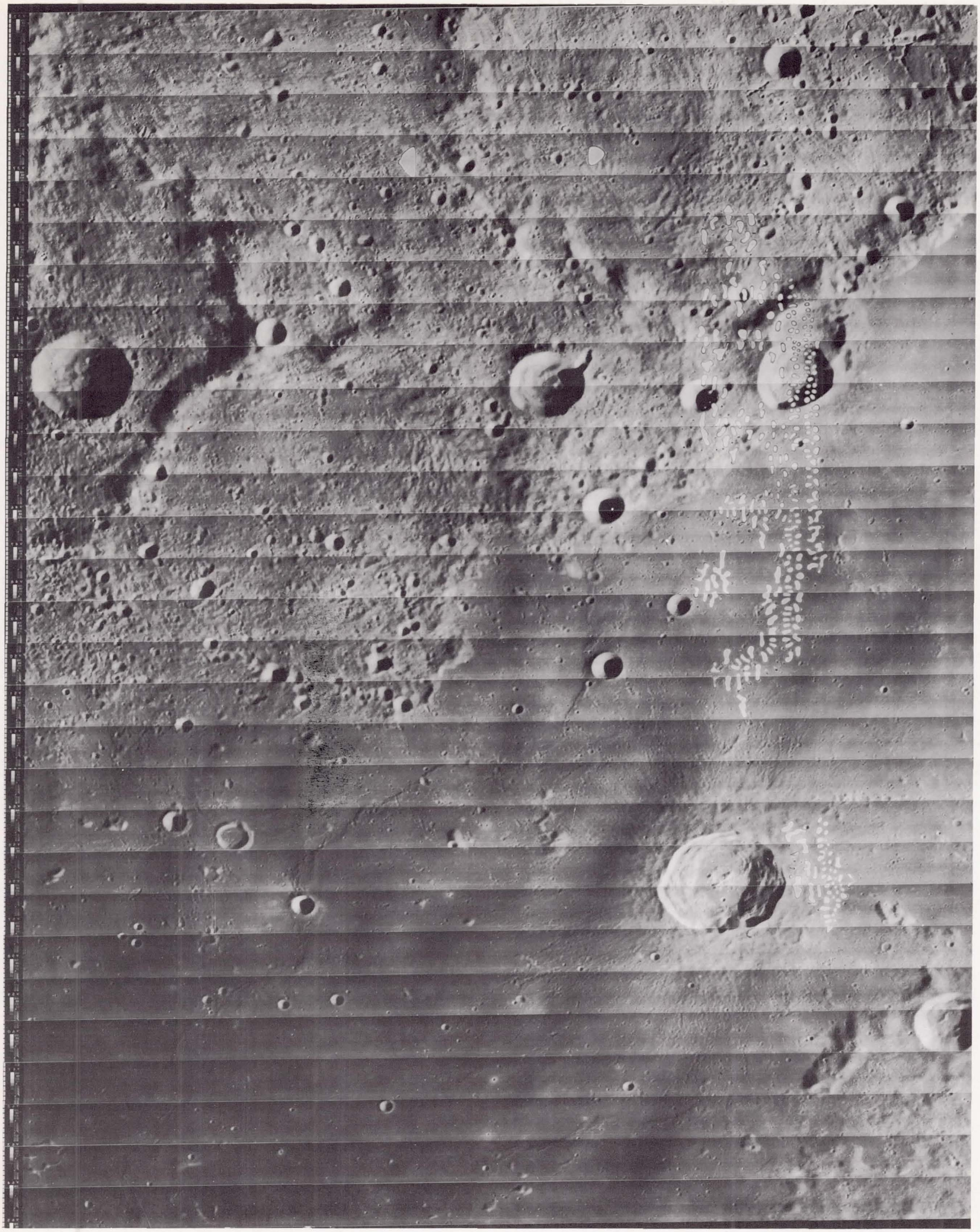
1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-164-H2
CENTER COORDINATES ..... LONG.—41.49
LAT. 70.19
NORTH DEVIATION (DEG) ..... 351.71
SUN ANGLE ..... 77.1
SPACECRAFT ALTITUDE (KM) ..... 3345.81

PLATE 11

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-164-H1

CENTER COORDINATES ..... LONG.—41.49
LAT. 70.19
NORTH DEVIATION (DEG) ..... 351.71
SUN ANGLE ..... 77.1
SPACECRAFT ALTITUDE (KM) ..... 3345.81

N

1 CENTIMETER ≈ 14 KILOMETERS

BABBAGE ..... L4
FOUCAULT .... A13
HARPALUS .... D11
HORREBOW .... C5
J. HERSCHEL .. D2
ROBINSON ..... F5
SOUTH ..... J7

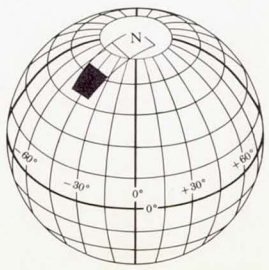
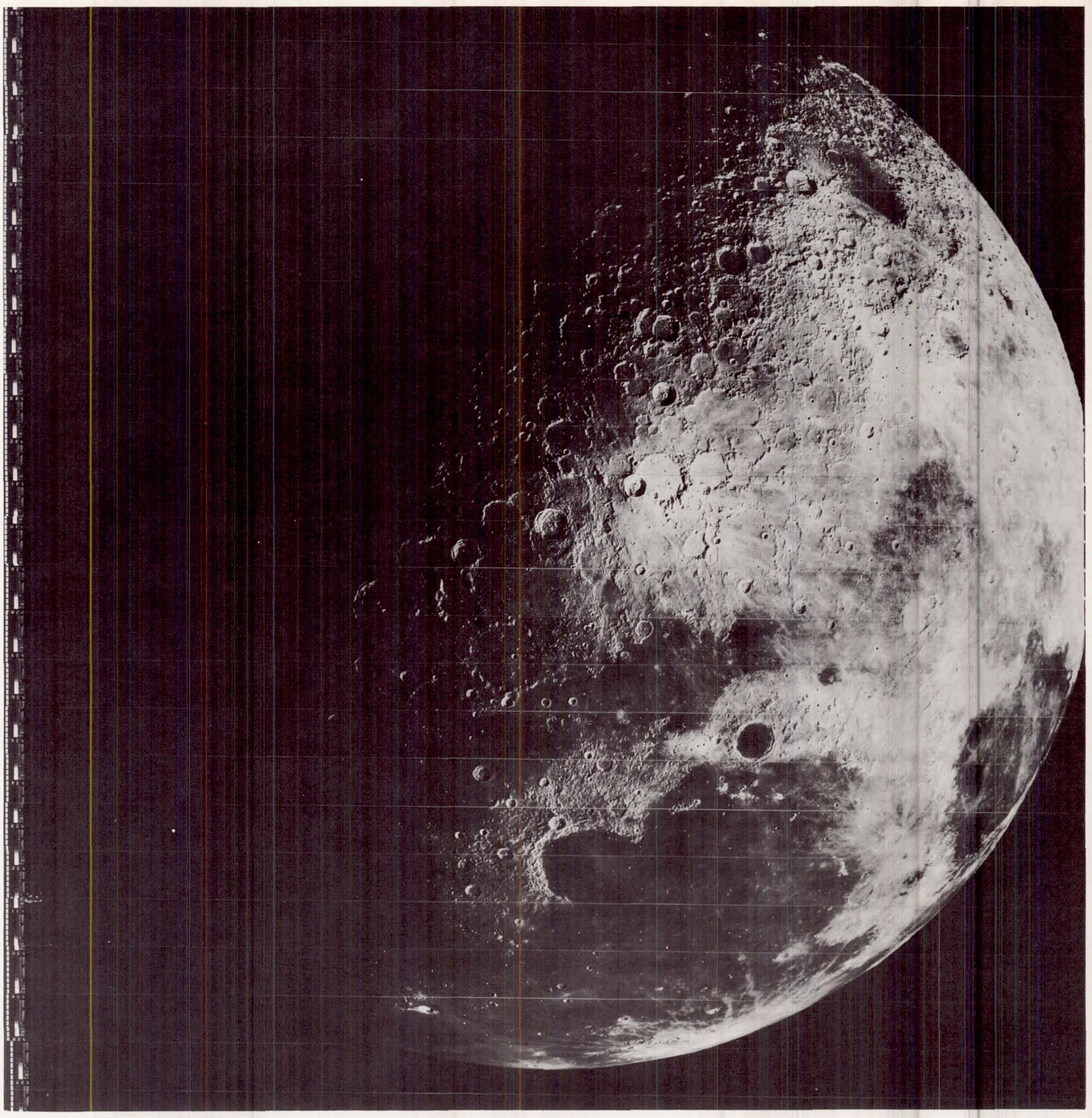
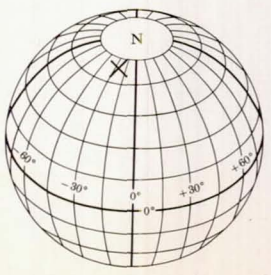



PLATE 12

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... H8
MARE HUMBOLDTIANUM .... K3
MARE IMBRIUM ..... H11
MARE SERENITATIS ..... M9
SINUS IRIDUM ..... G10

1 CENTIMETER ≈ 106 KILOMETERS

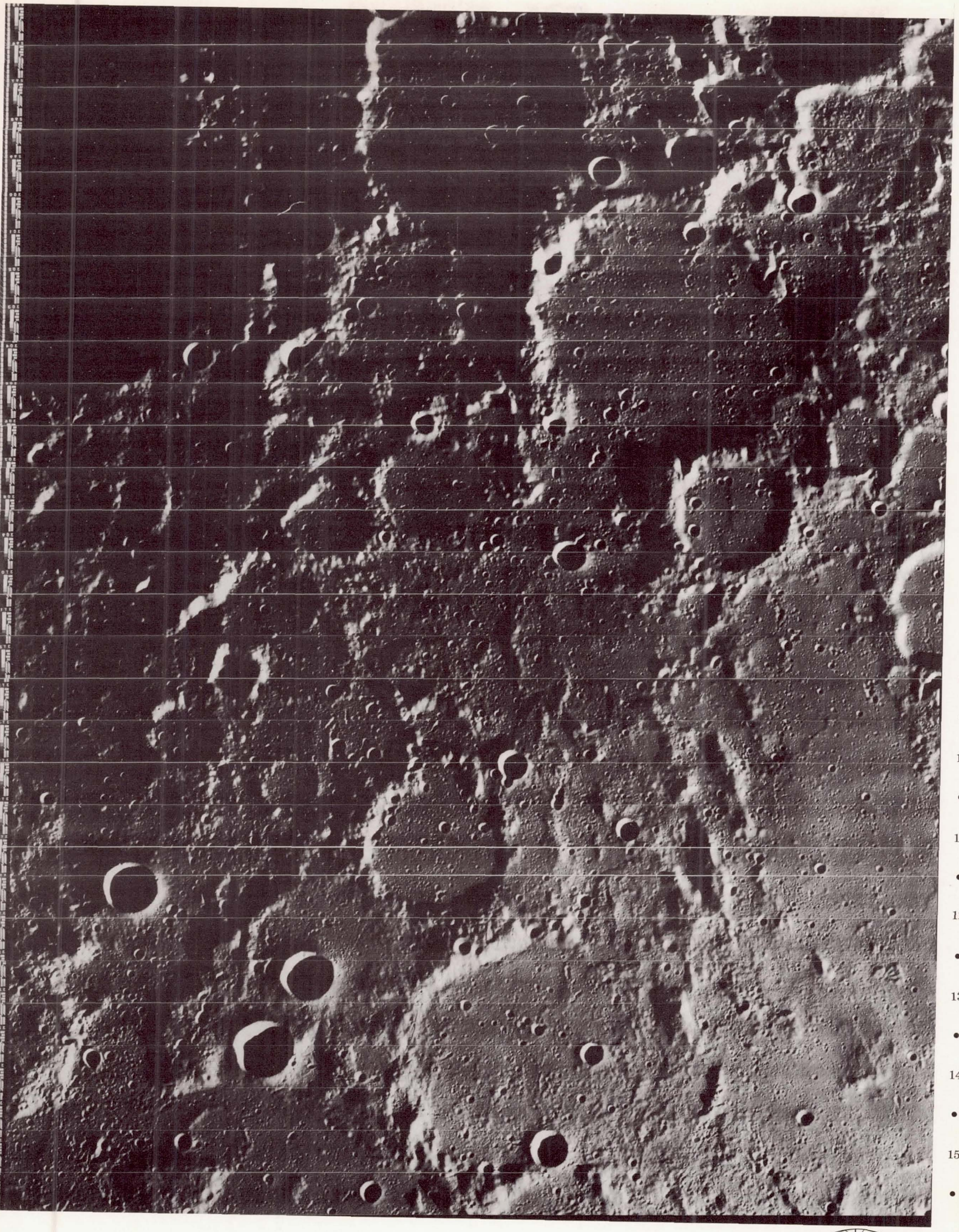
N

PHOTO NO. IV-152-M

CENTER COORDINATES ..... LONG. −29.60
LAT. 69.78
NORTH DEVIATION (DEG.) ..... 353.35
SUN ANGLE ..... 77.0
SPACECRAFT ALTITUDE (KM) ..... 3344.96

PLATE 13

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-152-H3

CENTER COORDINATES ..... LONG.–29.60
LAT. 69.78
NORTH DEVIATION (DEG.) ..... 353.35
SUN ANGLE ..... 77.0
SPACECRAFT ALTITUDE (KM) ..... 3344.93

N

1 CENTIMETER ≈ 14 KILOMETERS

GIOJA ..... D5
MOUCHEZ .... F14

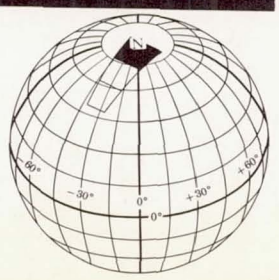
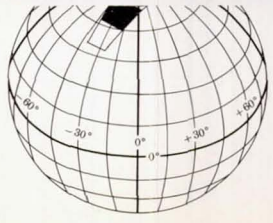



PLATE 14




ANAXIMENES .....B6
J. HERSCHEL .....B16
PHILOLAUS .....F6

1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-152-H2

CENTER COORDINATES ..... LONG.–29.60
LAT. 69.78
NORTH DEVIATION (DEG.) ..... 353.35
SUN ANGLE ..... 77.0
SPACECRAFT ALTITUDE (KM) ..... 3344.93

PLATE 15

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

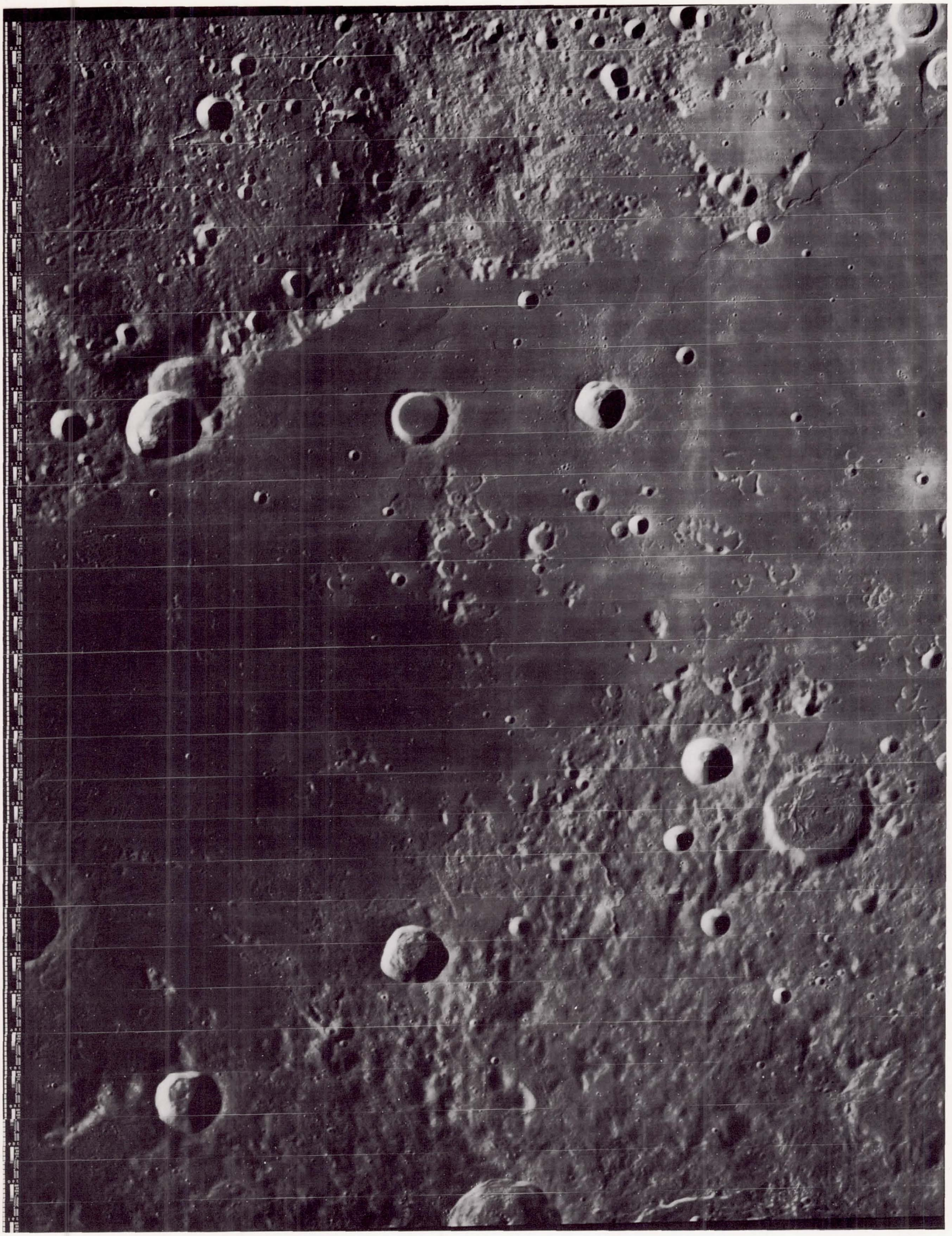


PHOTO NO. IV-152-H1

CENTER COORDINATES ..... LONG.–29.60
LAT. 69.78
NORTH DEVIATION (DEG.) ..... 353.35
SUN ANGLE ..... 77.0
SPACECRAFT ALTITUDE (KM) ..... 3344.93

N

1 CENTIMETER ≈ 14 KILOMETERS

BIANCHINI .....F16
BOUGUER .....G12
FOUCAULT .....K14
HARPALUS .....M12
HORREBOW .....K6
J. HERSCHEL..... L2
LA CONDAMINE.... B11

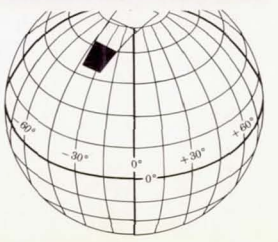
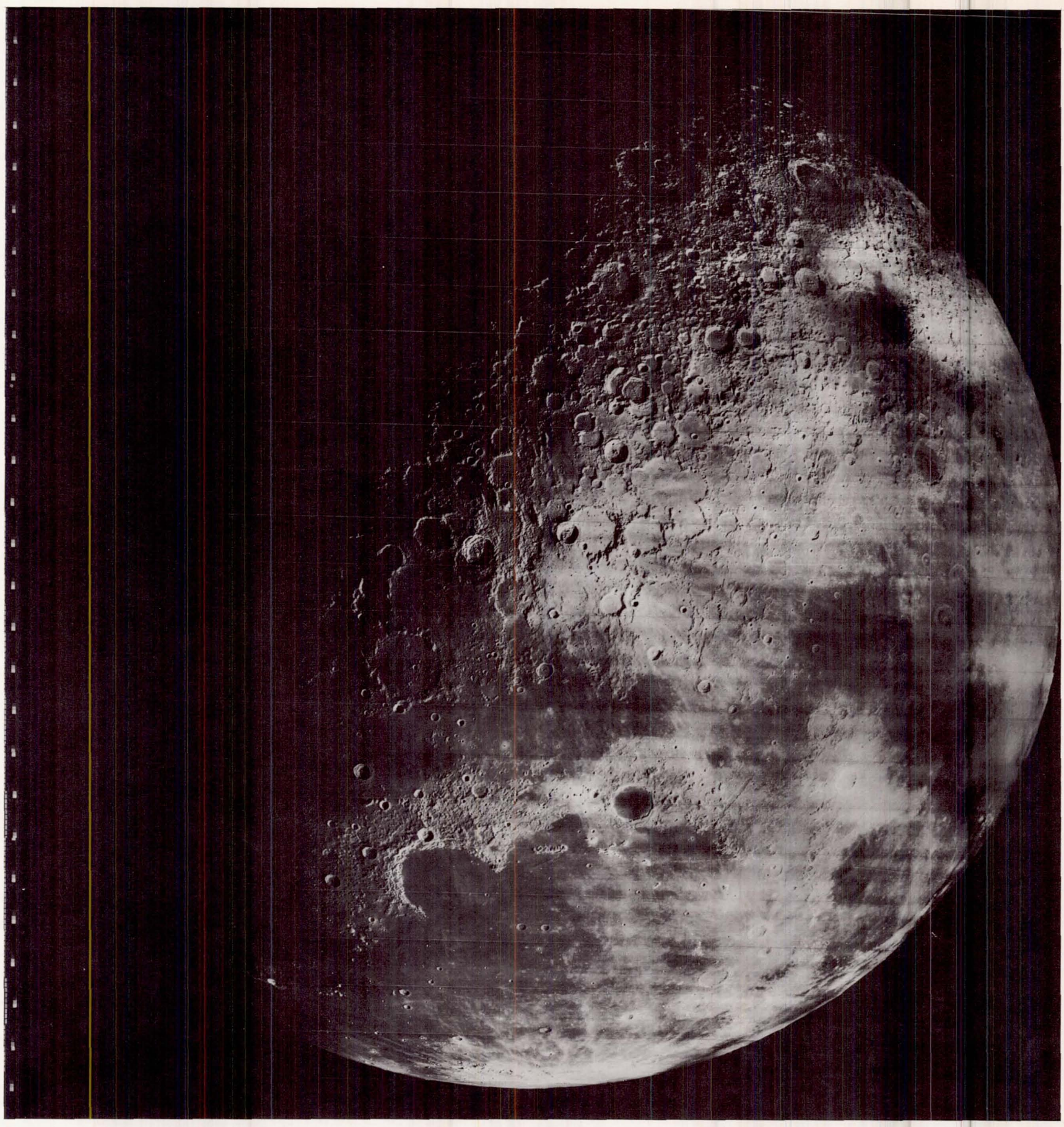
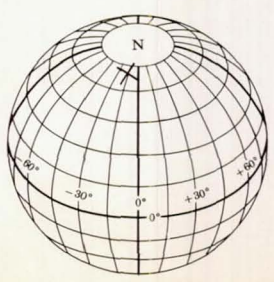



PLATE 16

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... E9
MARE HUMBOLDTIANUM ..... K4
MARE SERENITATIS ..... K10
MARE IMBRIUM ..... F11
SINUS IRIDUM ..... E10

1 CENTIMETER ≈106 KILOMETERS

N

PHOTO NO. IV-140-M

CENTER COORDINATES ..... LONG.–16.31
LAT. 71.06
NORTH DEVIATION (DEG.) ..... 353.99
SUN ANGLE ..... 77.5
SPACECRAFT ALTITUDE (KM) ..... 3355.17

PLATE 17

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

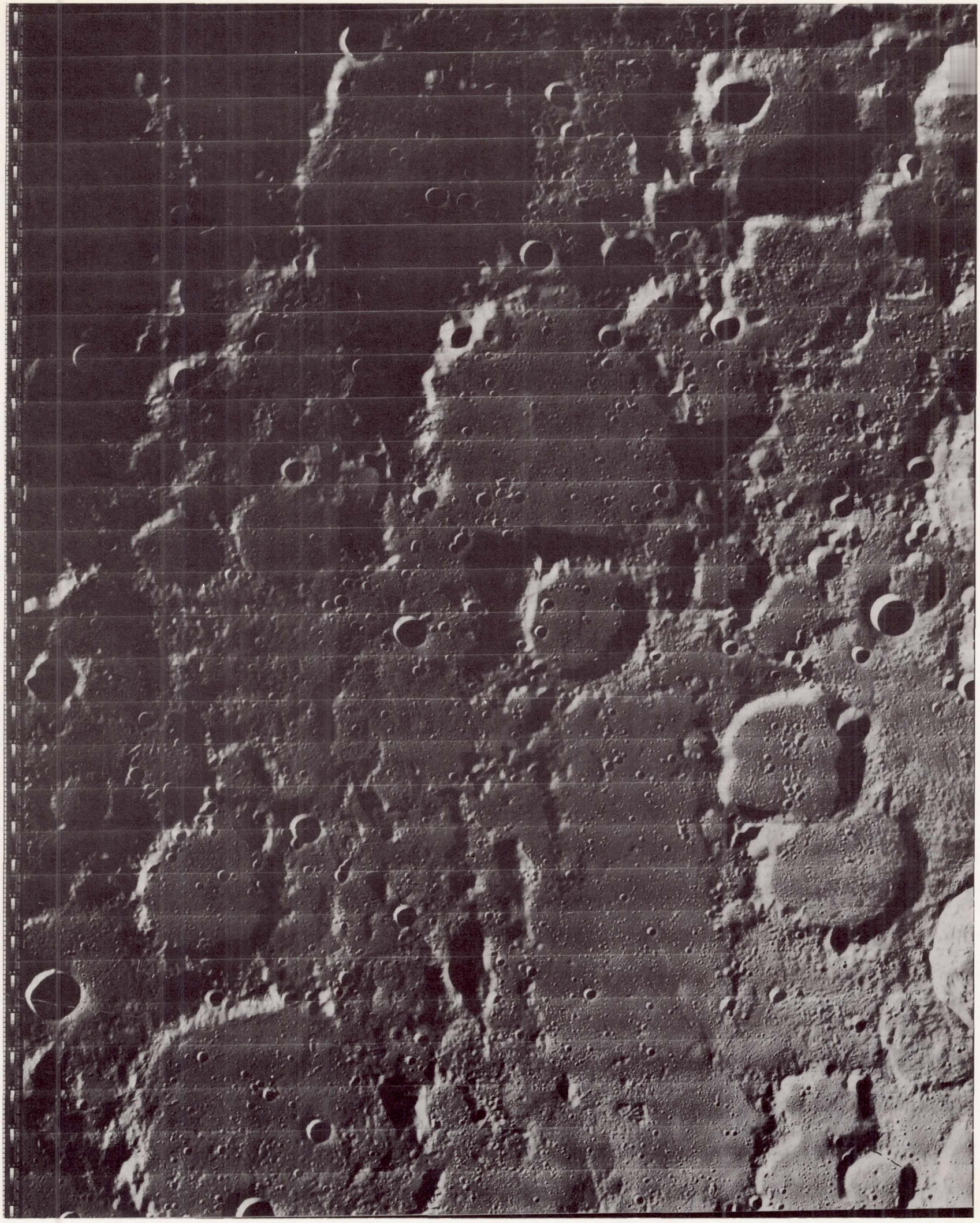


PHOTO NO. IV-140-H3

CENTER COORDINATES ..... LONG.–16.31
LAT. 71.05
NORTH DEVIATION (DEG.) ..... 353.99
SUN ANGLE ..... 77.5
SPACECRAFT ALTITUDE (KM) ..... 3355.14

N

1 CENTIMETER ≈ 14 KILOMETERS

BYRD ..... F6
CHALLIS ..... B11
GIOJA ..... E8
MAIN ..... C10
MOUCHEZ ..... J14
PEARY ..... G3
SCORESBY ..... A12

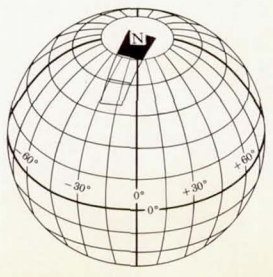
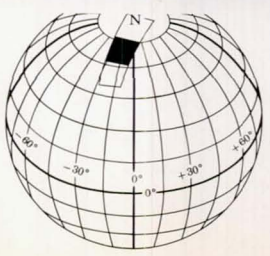



PLATE 18






ANAXAGORAS ..... H5
GOLDSCHMIDT ..... L4

1 CENTIMETER ≈ 14 KILOMETERS

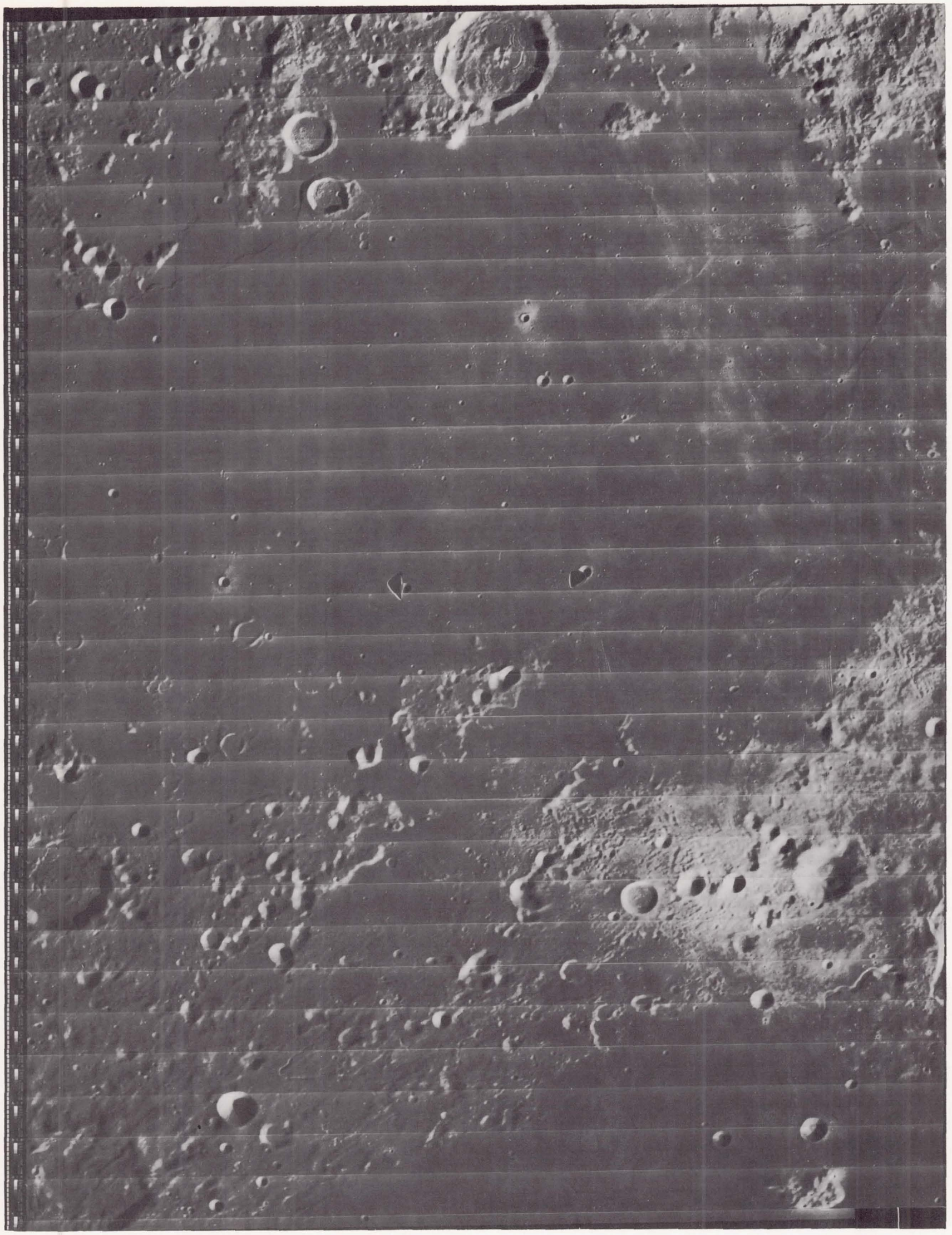
N

PHOTO NO. IV-140-H2

CENTER COORDINATES ..... LONG. −16.31
LAT. 71.05
NORTH DEVIATION (DEG.) ..... 353.99
SUN ANGLE ..... 77.5
SPACECRAFT ALTITUDE (KM) ..... 3355.14

PLATE 19

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-140-H1

CENTER COORDINATES ..... LONG.–16.31
LAT. 71.05
NORTH DEVIATION (DEG.) ..... 353.99
SUN ANGLE ..... 77.5
SPACECRAFT ALTITUDE (KM) ..... 3355.14

N

1 CENTIMETER ≈ 14 KILOMETERS

FONTENELLE .... F1

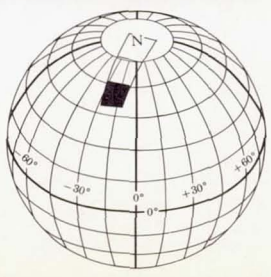
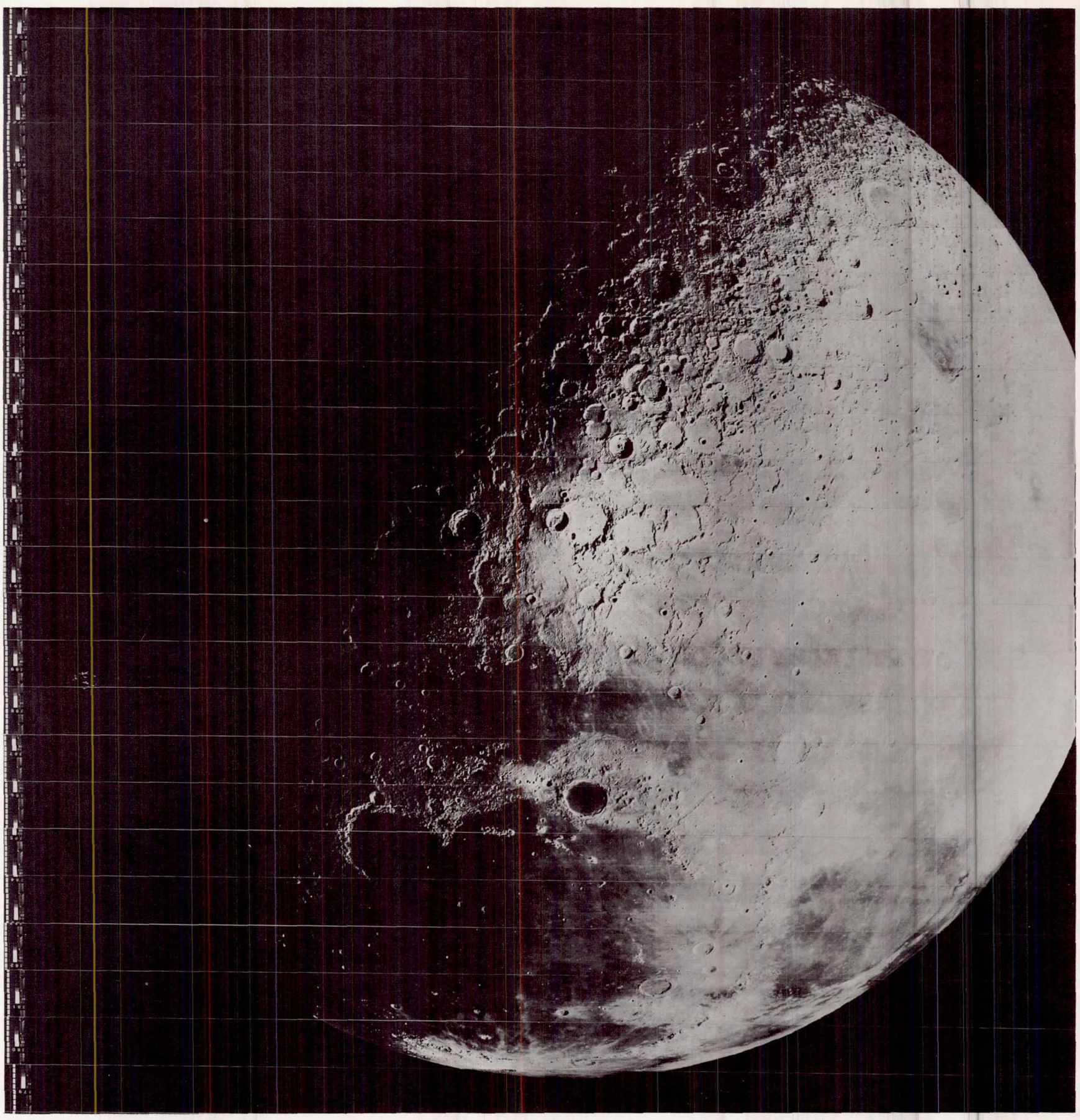
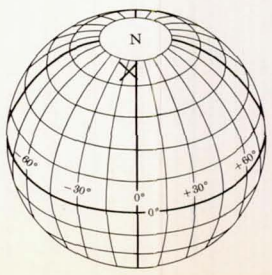



PLATE 20

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE FRIGORIS | F9 |
| MARE IMBRIUM | F11 |
| MARE SERENITATIS | K11 |
| SINUS IRIDUM | E10 |

1 CENTIMETER ≈107 KILOMETERS

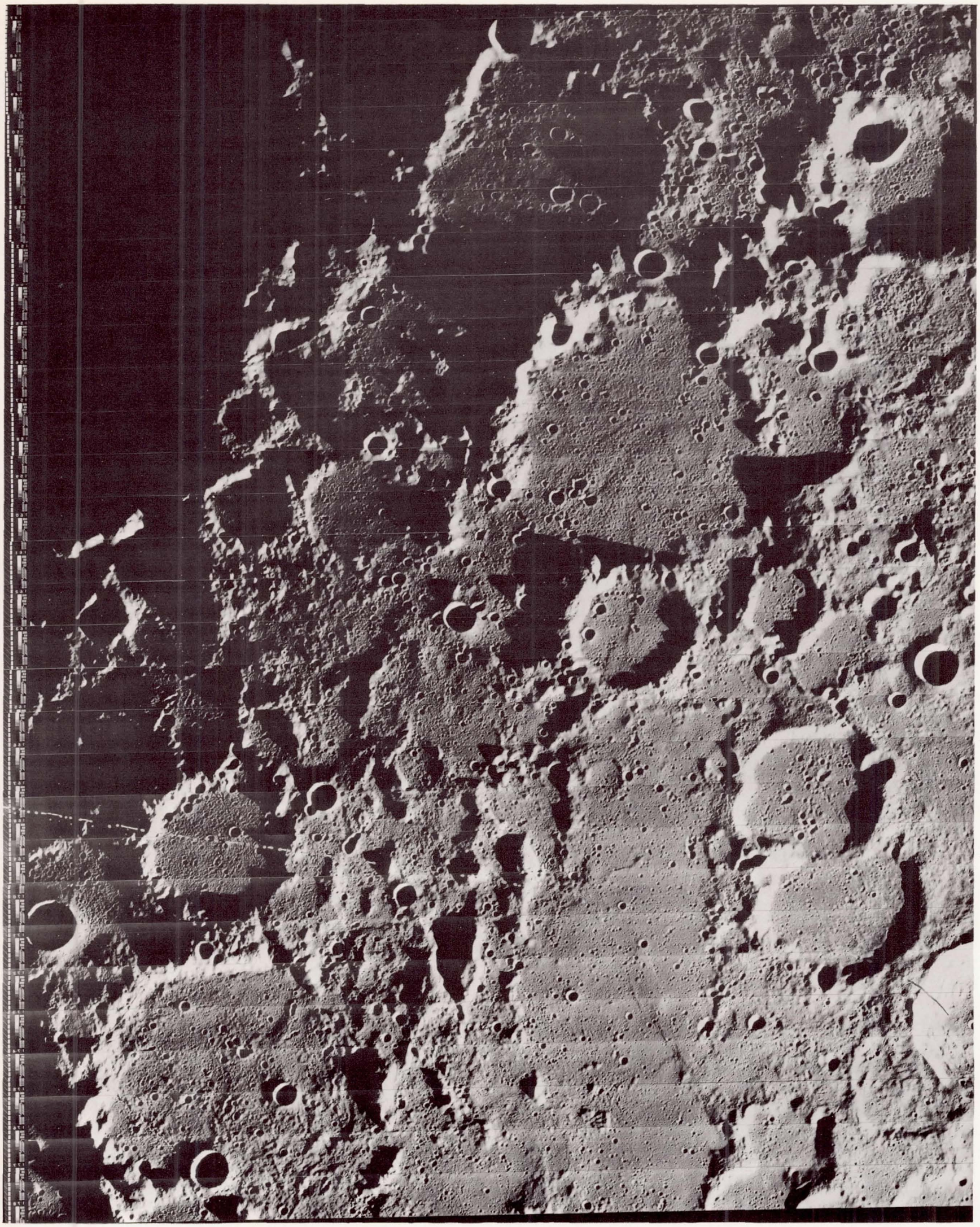



PHOTO NO. IV-128-M

| | |
|---|---|
| CENTER COORDINATES | LONG.–9.43 |
| | LAT. 69.93 |
| NORTH DEVIATION (DEG.) | 355.25 |
| SUN ANGLE | 78.3 |
| SPACECRAFT ALTITUDE (KM) | 3369 20 |

PLATE 21

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-128-H3

CENTER COORDINATES ..... LONG.–9.43
LAT. 69.92
NORTH DEVIATION (DEG.) ..... 355.25
SUN ANGLE ..... 78.3
SPACECRAFT ALTITUDE (KM) ..... 3369.17

N

1 CENTIMETER ≈14 KILOMETERS

BYRD ..... E6
CHALLIS ..... B12
GIOJA ..... E8
MAIN ..... C10
PEARY ..... F3
SCORESBY .... A13

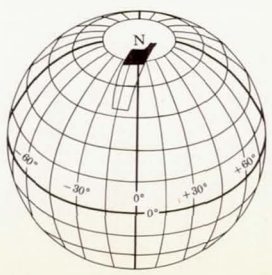
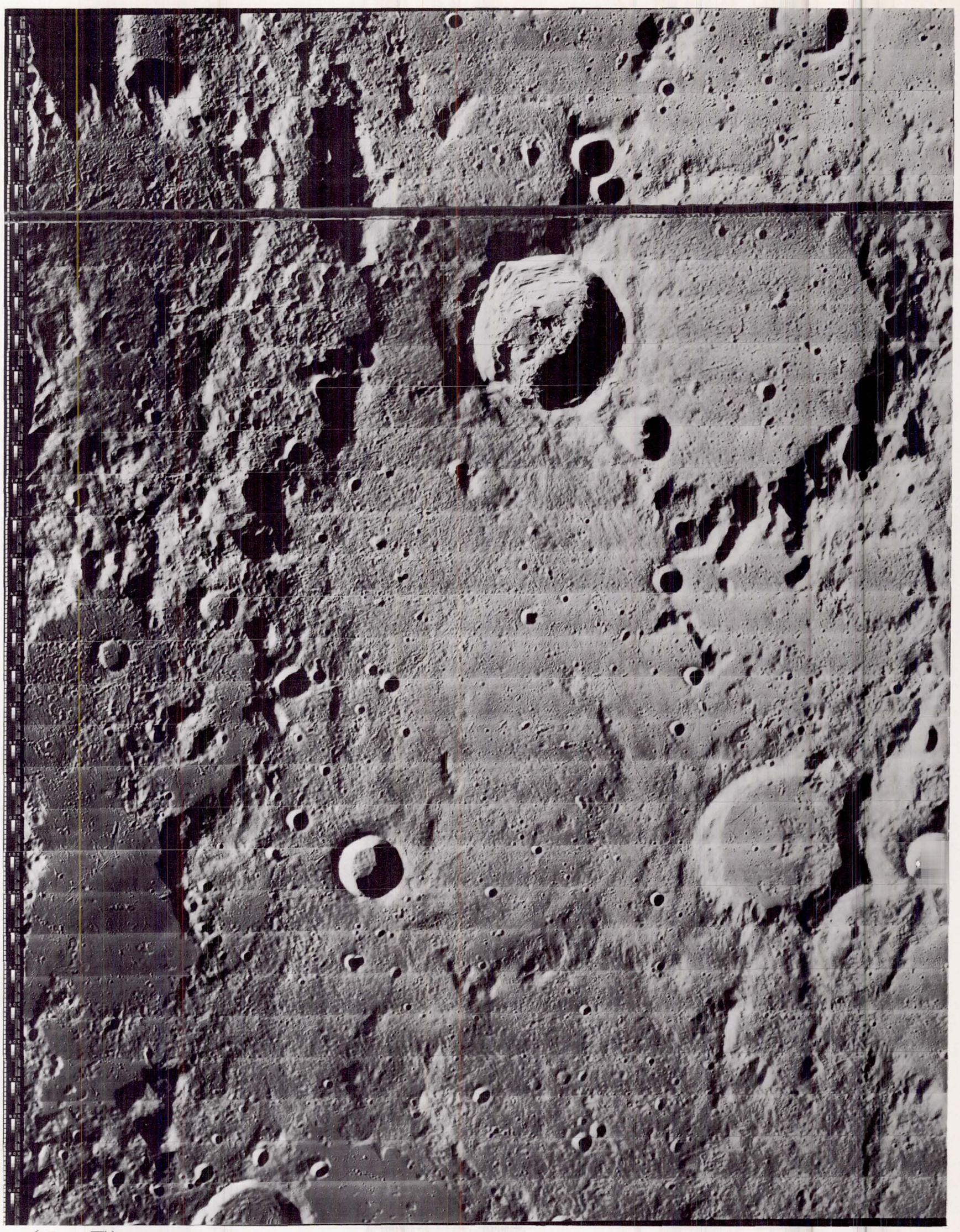
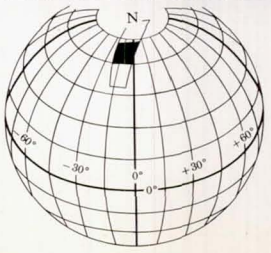



PLATE 22




BIRMINGHAM .... G14
EPIGENES ..... K11
FONTENELLE ..... C16
GOLDSCHMIDT .... J5
ANAXAGORAS ..... G5

1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-128-H2
CENTER COORDINATES ..... LONG.–9.43
LAT. 69.92
NORTH DEVIATION (DEG.) ..... 355.25
SUN ANGLE ..... 78.3
SPACECRAFT ALTITUDE (KM) ..... 3369.20

PLATE 23

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

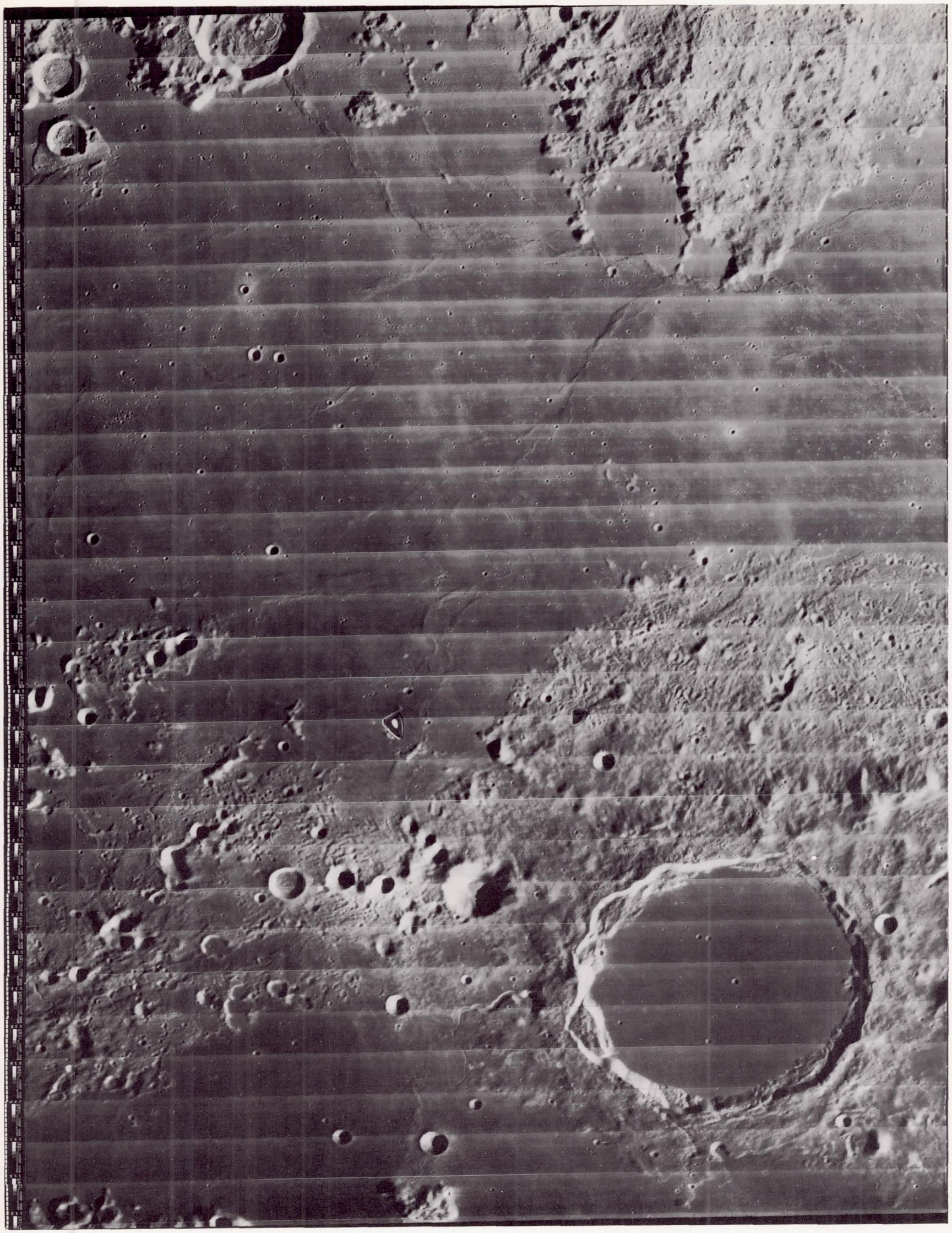


PHOTO NO. IV-128-H1

CENTER COORDINATES ..... LONG.–9.43
LAT. 69.92
NORTH DEVIATION (DEG.) ..... 355.25
SUN ANGLE ..... 78.3
SPACECRAFT ALTITUDE (KM) ..... 3369.20

N

1 CENTIMETER≈14 KILOMETERS

FONTENELLE .... J1
PLATO .....C13

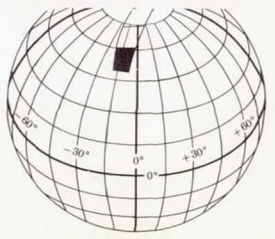
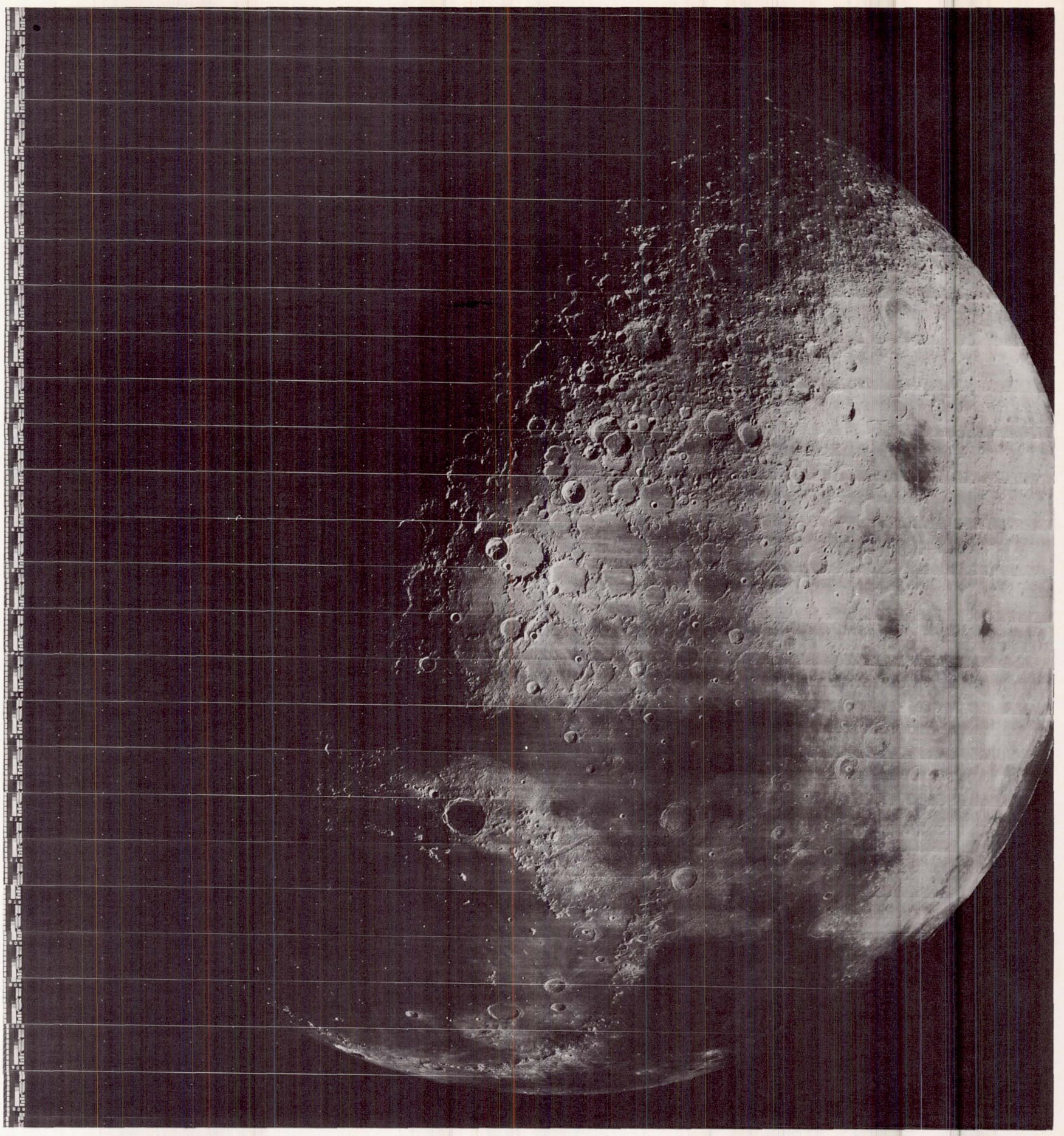
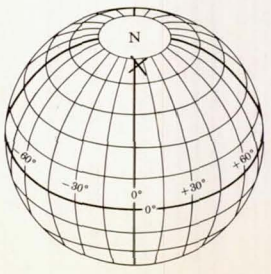



PLATE 24






MARE FRIGORIS ..... H10
MARE HUMBOLDTIANUM ..... L7
MARE IMBRIUM ..... E12
MARE SERENITATIS ..... J13

1 CENTIMETER ≈107 KILOMETERS

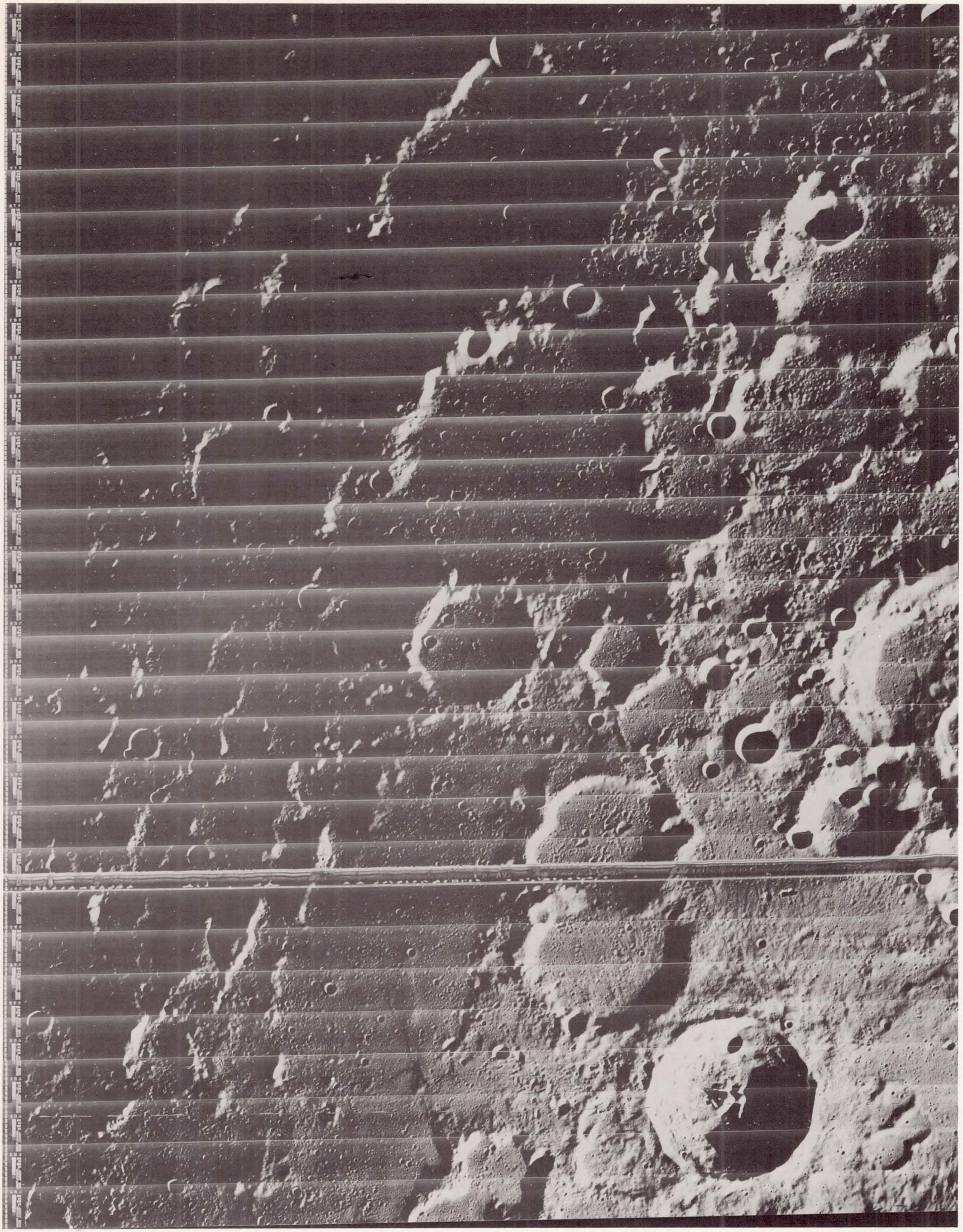
N

PHOTO NO. IV-116-M

CENTER COORDINATES ..... LONG. 4.49
LAT. 70.80
NORTH DEVIATION (DEG.) ..... 355.69
SUN ANGLE ..... 78.4
SPACECRAFT ALTITUDE (KM) ..... 3396.97

PLATE 25

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-116-H3

CENTER COORDINATES ..... LONG. 4.49
LAT. 70.80
NORTH DEVIATION (DEG.) ..... 355.69
SUN ANGLE ..... 78.4
SPACECRAFT ALTITUDE (KM) ..... 3396.94

N

1 CENTIMETER ≈ 14 KILOMETERS

BYRD ..... F6
CHALLIS ..... E12
GIOJA ..... G9
MAIN ..... E11
PEARY ..... F3
SCORESBY ....C14

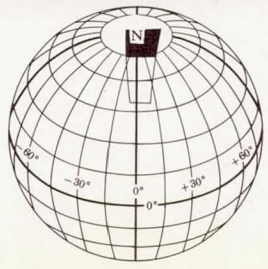
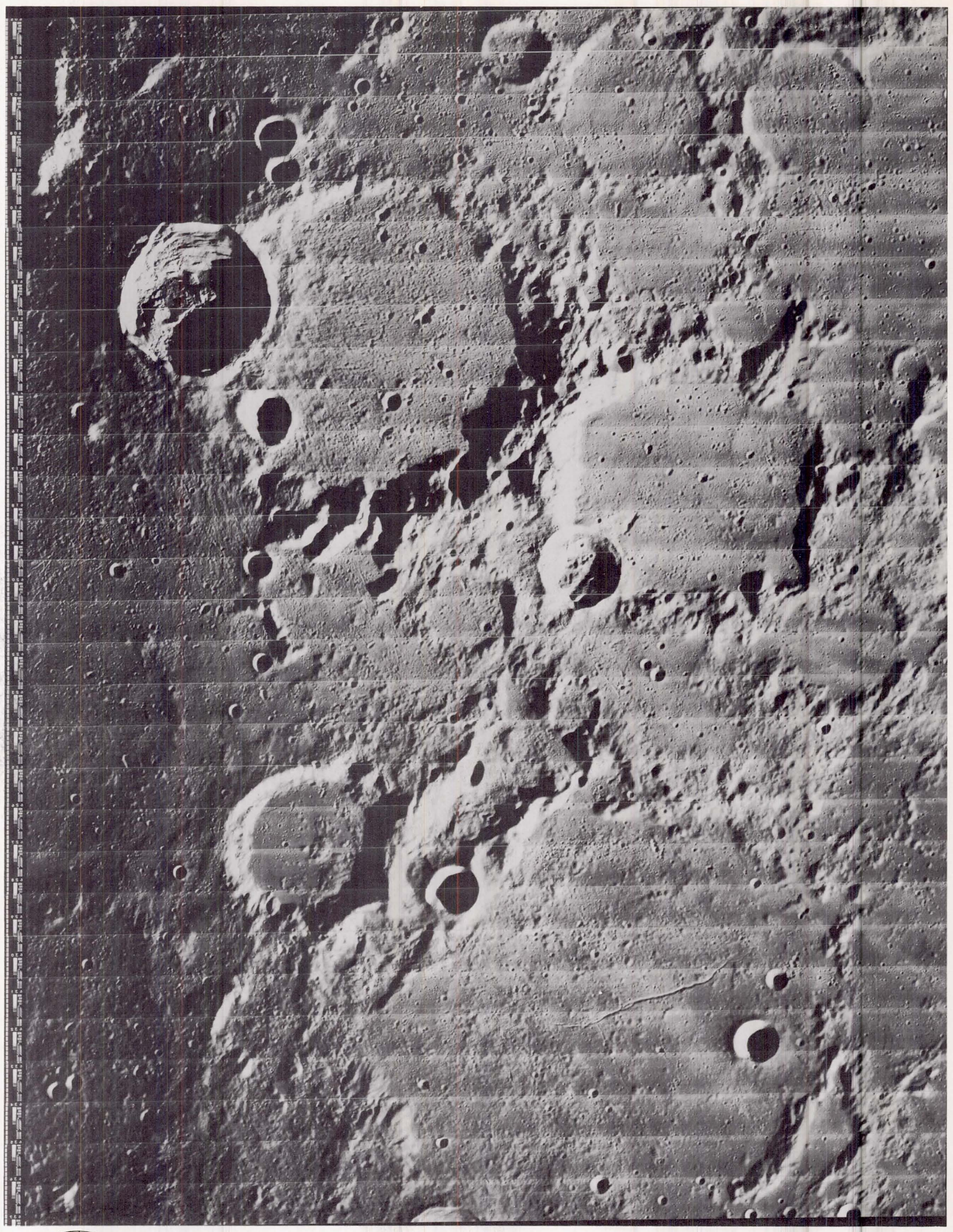
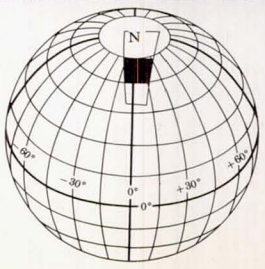



PLATE 26






ANAXAGORAS ..... C4
BARROW ..... J 7
EPIGENES ..... D11
GOLDSCHMIDT ..... E5
W. BOND ..... H 14

1 CENTIMETER≈ 14 KLIOMETERS

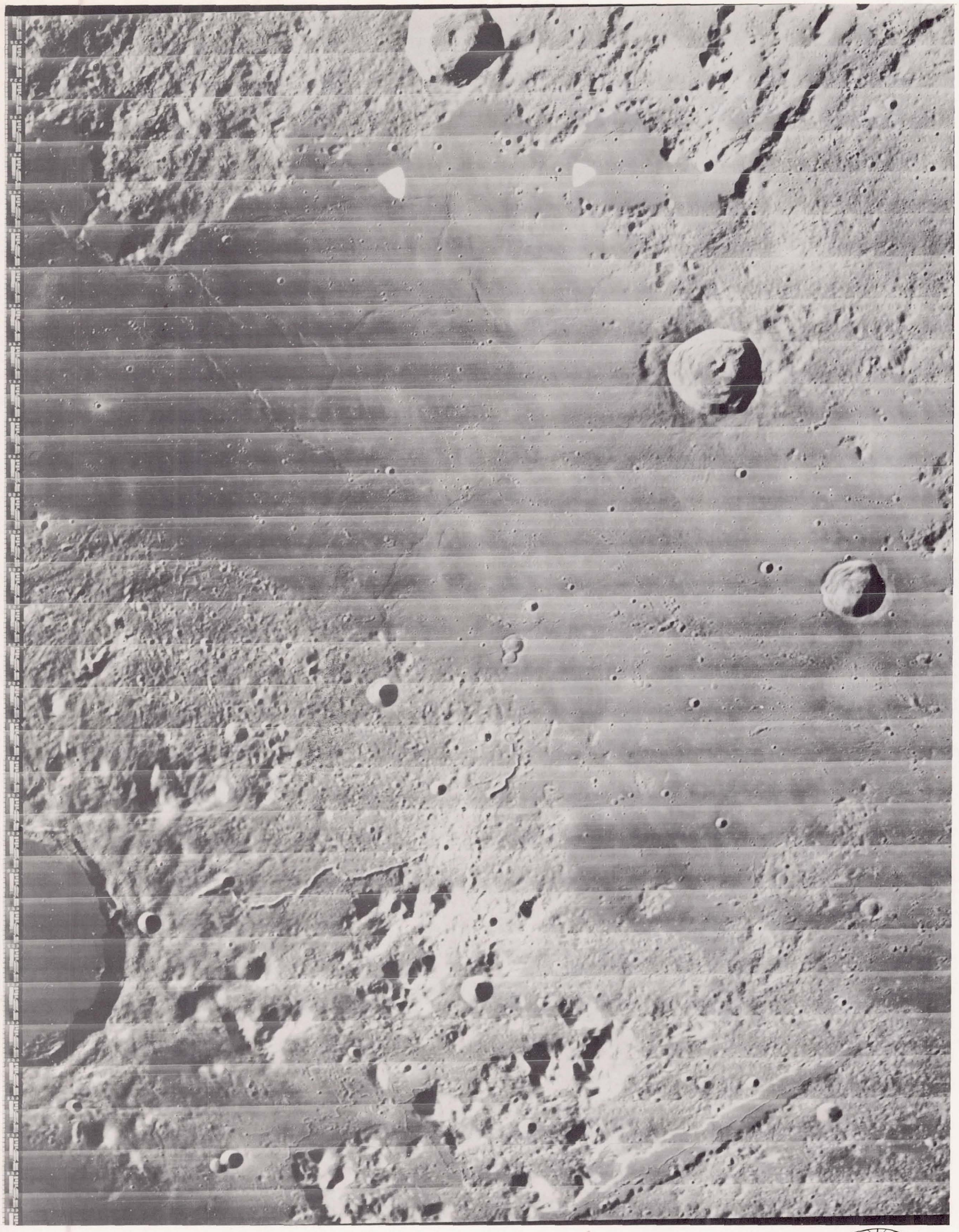
N

PHOTO NO. IV-116- H2

CENTER COORDINATES ..... LONG. . 4.49
LAT. . .70.80
NORTH DEVIATION (DEG.) ..... 355.69
SUN ANGLE ..... 78.4
SPACECRAFT ALTITUDE (KM) ..... 3396.97

PLATE 27

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-116-H1

CENTER COORDINATES ..... LONG. 4.49
LAT. 70.80
NORTH DEVIATION (DEG.) ..... 355.69
SUN ANGLE ..... 78.4
SPACECRAFT ALTITUDE (KM) ..... 3396.97

N

1 CENTIMETER ≈ 14 KILOMETERS

ARCHYTAS ..... D5
PLATO ..... M12
PROTAGORAS ..... B8
TIMAEUS ..... G1
VALLIS ALPES .... D15

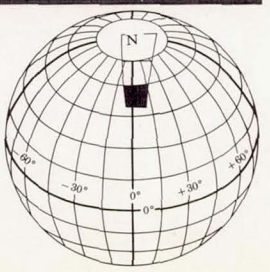
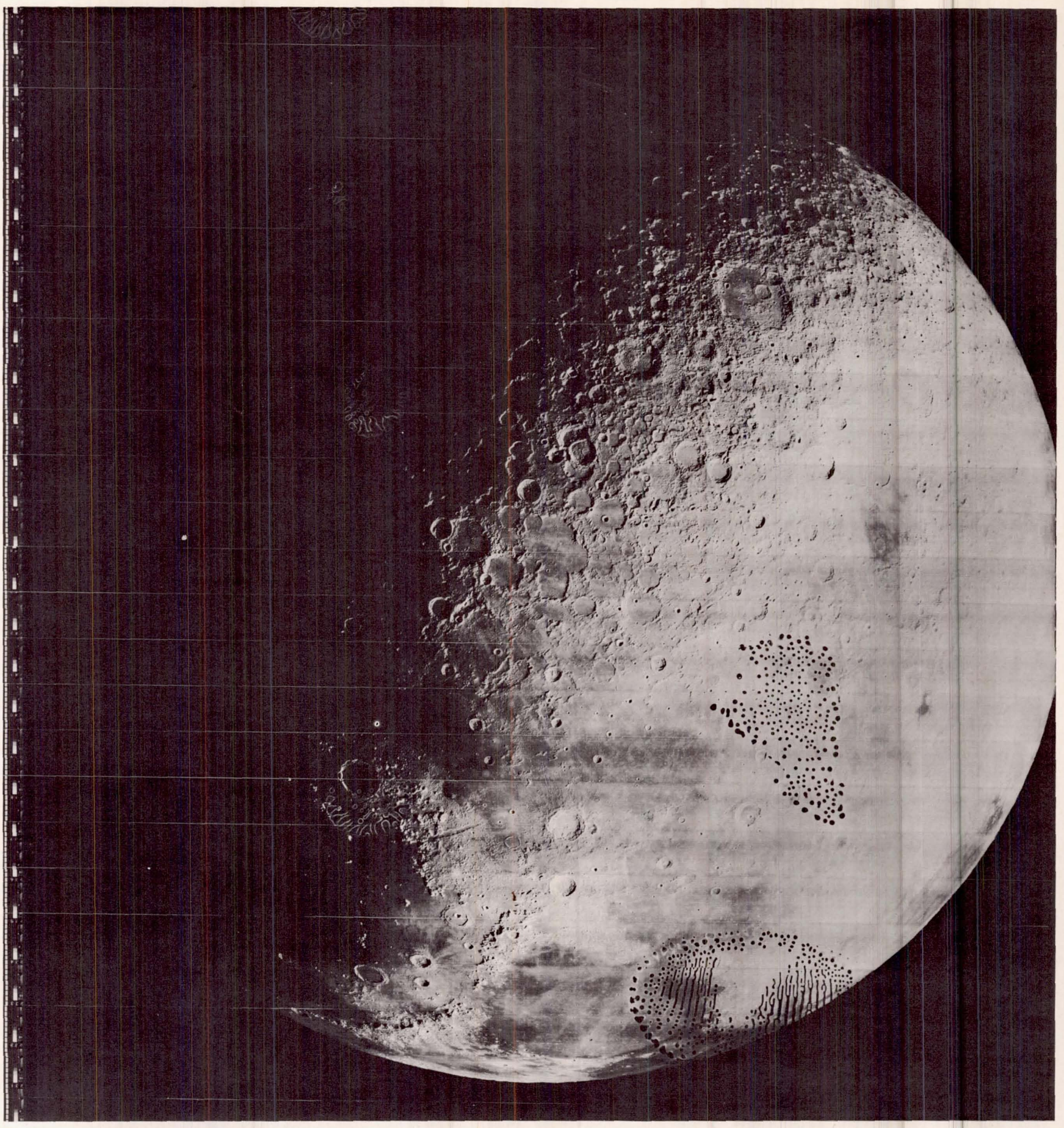
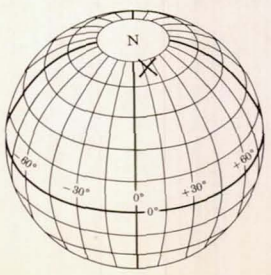



PLATE 28




MARE FRIGORIS ..... E9
MARE HUMBOLDTIANUM .... K7
MARE IMBRIUM ..... D11
MARE SERENITATIS ..... G12

1 CENTIMETER ≈ 108 KILOMETERS

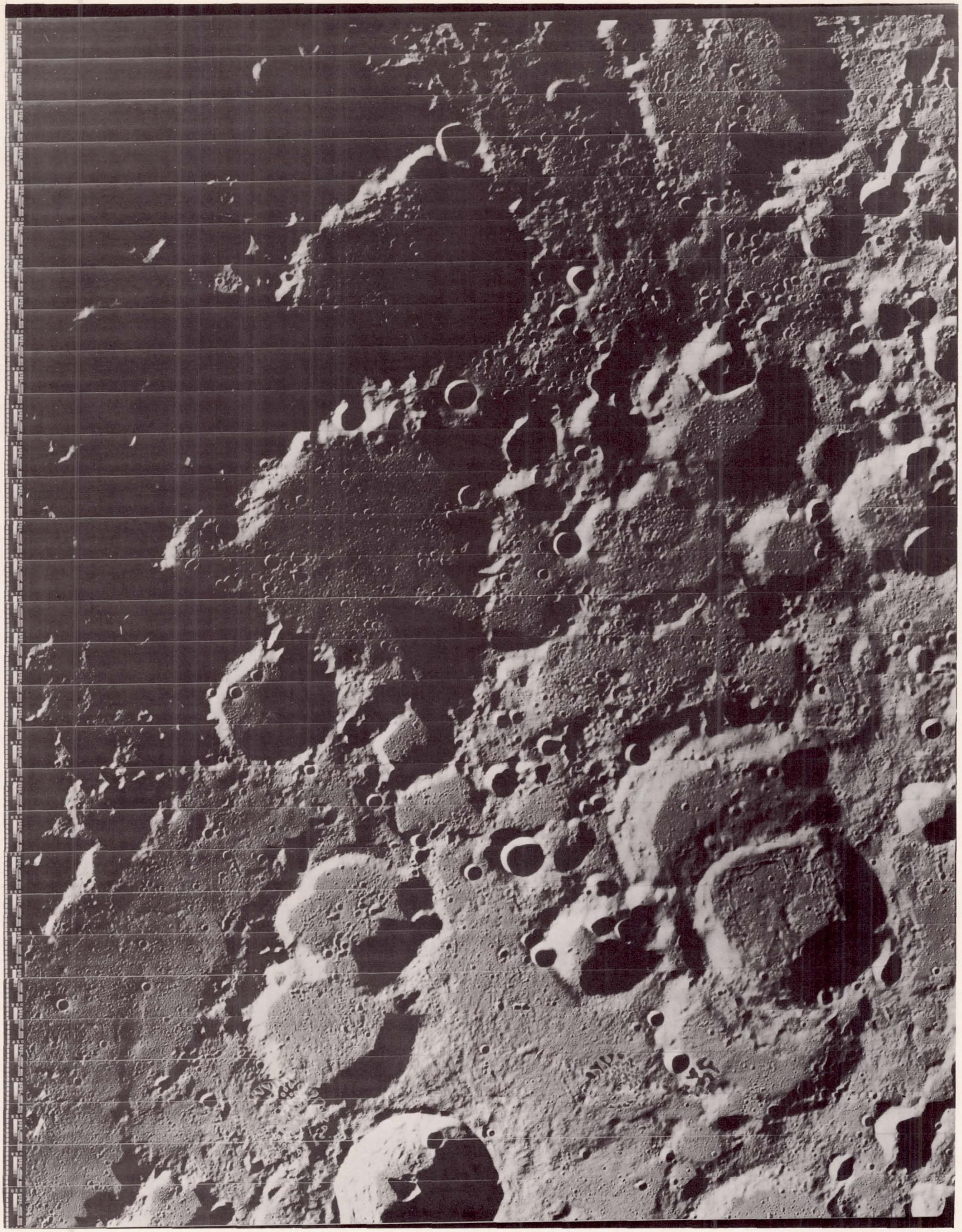
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PHOTO NO. IV-104-M

CENTER COORDINATES ..... LONG. 18.10
LAT. 70.35
NORTH DEVIATION (DEG.) ..... 354.7
SUN ANGLE ..... 77.8
SPACECRAFT ALTITUDE (KM) ..... 3427.67

PLATE 29

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-104-H3

CENTER COORDINATES ..... LONG. 18.09
LAT. 70.35
NORTH DEVIATION (DEG.) ..... 354.65
SUN ANGLE ..... 77.8
SPACECRAFT ALTITUDE (KM) ..... 3427.64

N

1 CENTIMETER ≈ 14 KILOMETERS

BYRD ..... H7
CHALLIS ..... H13
DE SITTER ..... C12
EUCTEMON ..... C15
GIOJA ..... J9
MAIN ..... H12
PEARY ..... G4
SCORESBY ..... G15

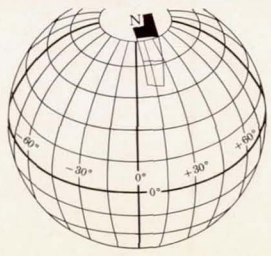
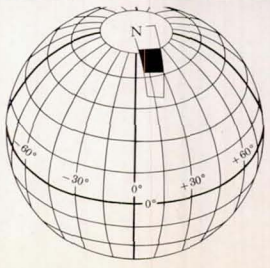



PLATE 30

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BAILLAUT ..... M2
BARROW ..... C7
EUCTEMON .... K1
METON ..... H6
NEISON ..... K10
W. BOND ..... A13

1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-104-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. 18.09 |
| | LAT. 70.35 |
| NORTH DEVIATION (DEG.) ..... | 354.65 |
| SUN ANGLE ..... | 77.8 |
| SPACECRAFT ALTITUDE (KM) ..... | 3427.64 |

PLATE 31

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

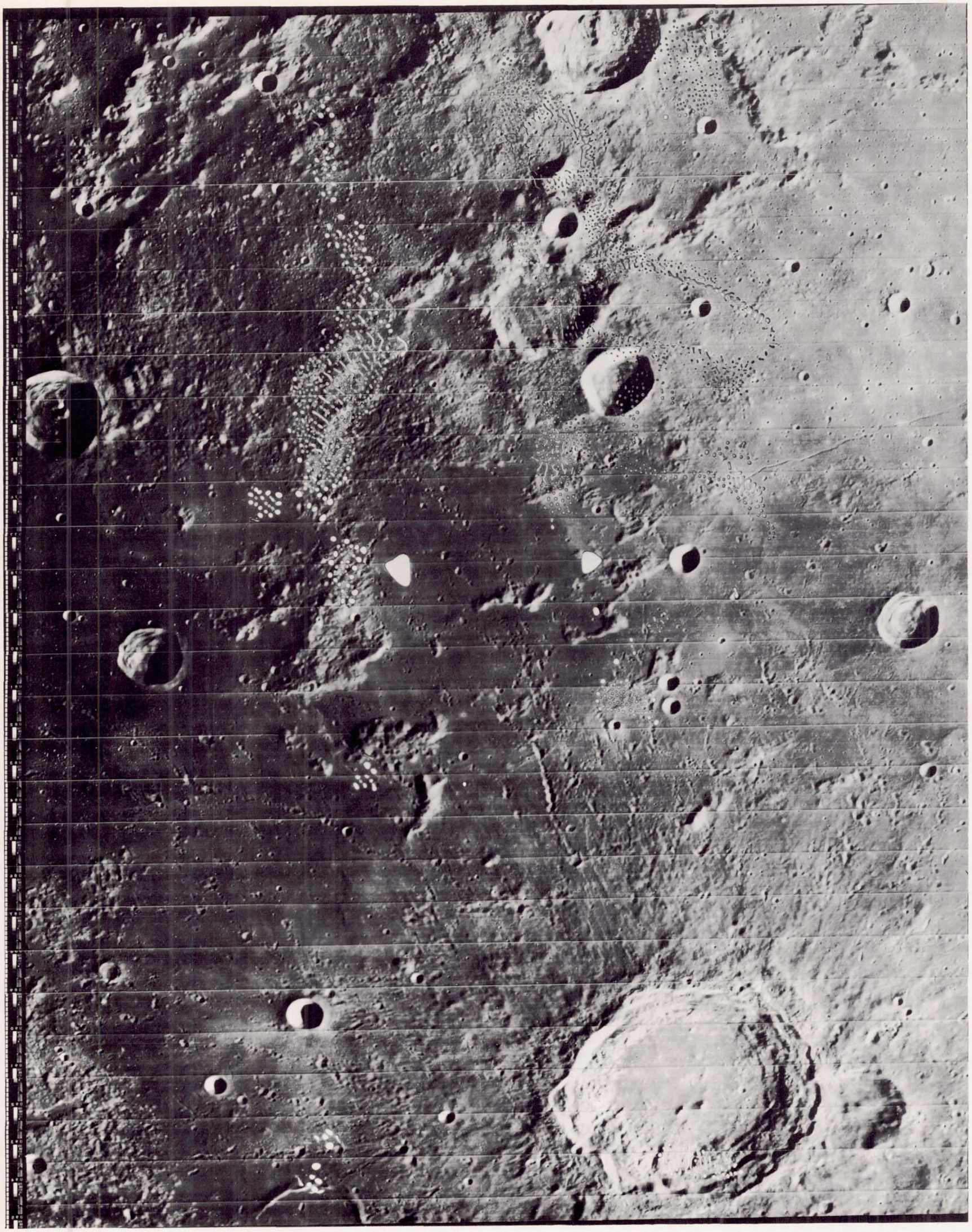


PHOTO NO. IV-104-H1

CENTER COORDINATES ..... LONG. 18.09
LAT. 70.35
NORTH DEVIATION (DEG.) ..... 354.65
SUN ANGLE ..... 77.8
SPACECRAFT ALTITUDE (KM) ..... 3427.64

N

1 CENTIMETER ≈14 KILOMETERS

ARCHYTAS ..... M5
ARISTOTELES ..... D14
C. MAYER ..... E1
EGEDE ..... J15
GALLE ..... A8
MITCHELL ..... B14
PROTAGORAS ..... L9
SHEEPSHANKS .... E5
TROUVELOT ..... M15
VALLIS ALPES .... M14

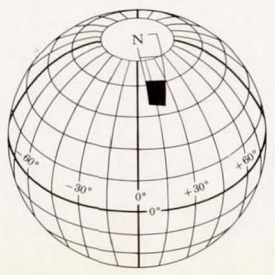
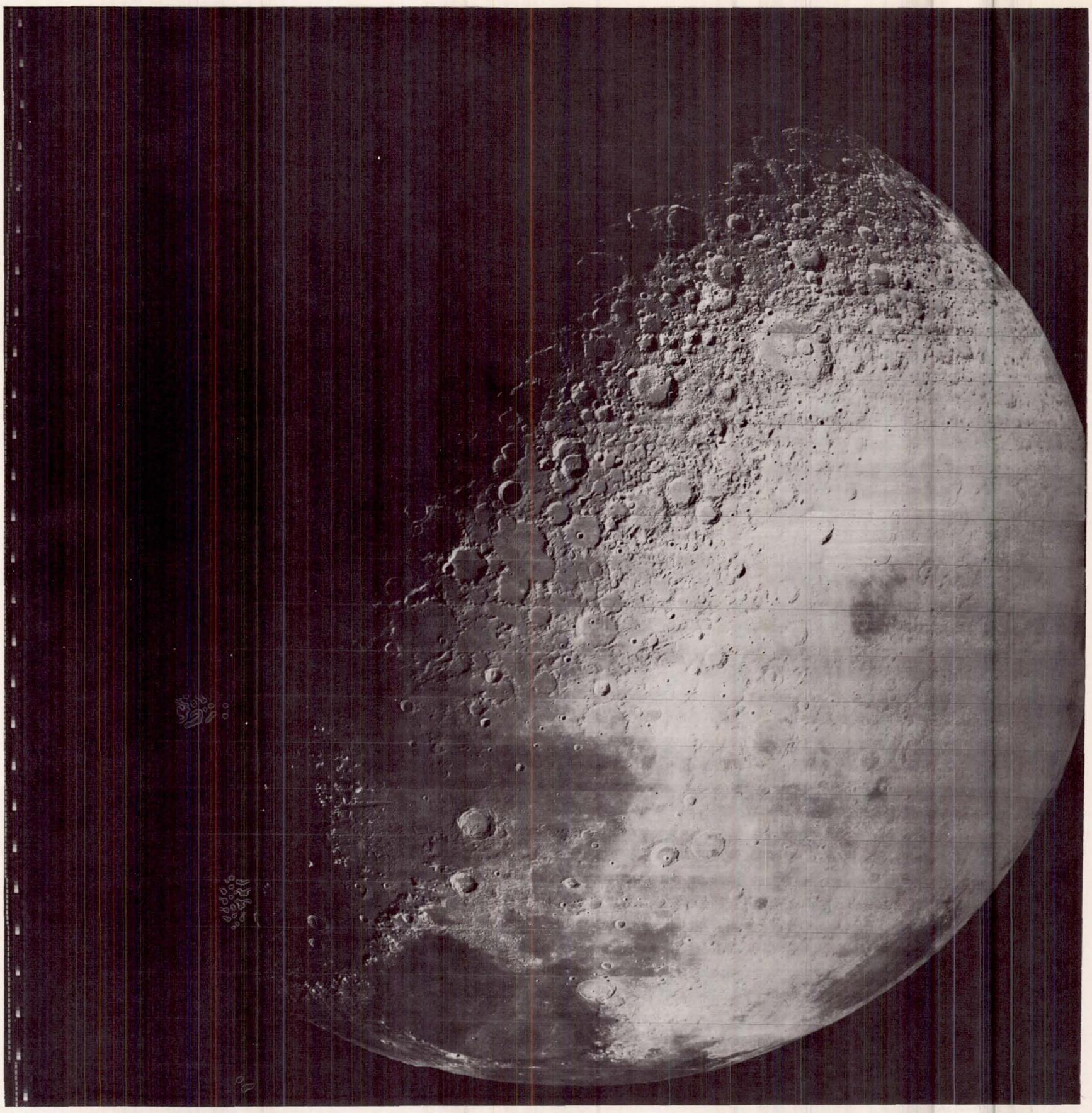
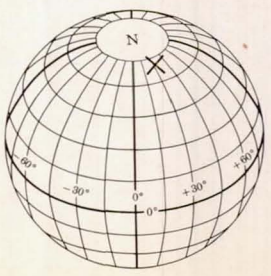



PLATE 32

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE CRISIUM | K12 |
| MARE HUMBOLDTIANUM | K7 |
| MARE FRIGORIS | E9 |
| MARE SERENITATIS | F12 |

1 CENTIMETER≈109 KILOMETERS

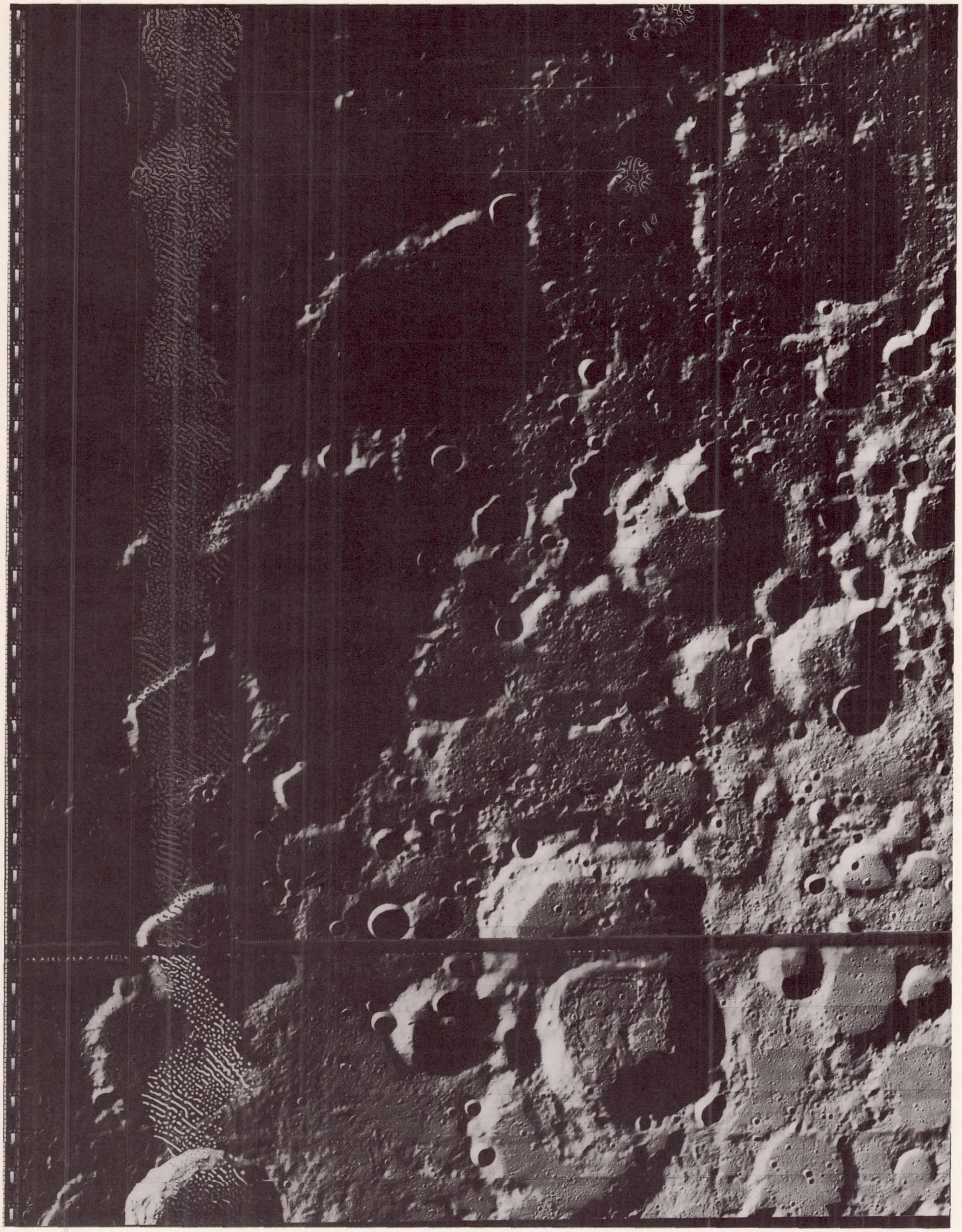
N

PHOTO NO. IV-92-M

| | |
|---|---|
| CENTER COORDINATES | LONG. 32.23 |
| | LAT. 71.17 |
| NORTH DEVIATION (DEG.) | 354.09 |
| SUN ANGLE | 77.8 |
| SPACECRAFT ALTITUDE (KM) | 3457.18 |

PLATE 33

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-92-H3

CENTER COORDINATES ..... LONG. 32.22
LAT. 71.16
NORTH DEVIATION (DEG.) ..... 354.09
SUN ANGLE ..... 77.8
SPACECRAFT ALTITUDE (KM) ..... 3457.15

N

1 CENTIMETER ≈14 KILOMETERS

BYRD ..... H8
CHALLIS ..... L14
DE SITTER .... E14
GIOJA ..... K9
MAIN ..... J13
PEARY ..... G5
SCORESBY .... K15

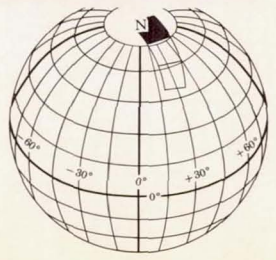
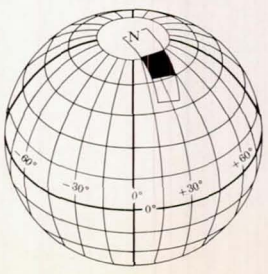



PLATE 34

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ARNOLD ..... K12
BAILLAUD ..... J4
EUCTEMON ..... G2
METON ..... D5
NEISON ..... E12
PETERS ..... G12
SCORESBY ..... C1

1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-92-H2

CENTER COORDINATES ..... LONG. 32.22
LAT. 71.16
NORTH DEVIATION (DEG.) ..... 354.09
SUN ANGLE ..... 77.8
SPACECRAFT ALTITUDE (KM) ..... 3457.15

PLATE 35

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-92-H1

CENTER COORDINATES ..... LONG. 32.22
LAT. 71.16
NORTH DEVIATION (DEG.) ..... 354.09
SUN ANGLE ..... 77.8
SPACECRAFT ALTITUDE (KM) ..... 3457.15

N

1 CENTIMETER ≈ 14 KILOMETERS

ARISTOTELES .... M15
C. MAYER ..... L2
DEMOCRITUS ..... B3
GARTNER ..... B6
KANE ..... G2
MITCHELL ..... L15
SHEEPSHANKS .... M6

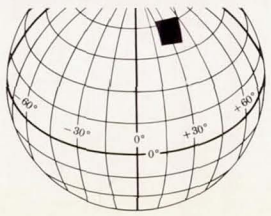
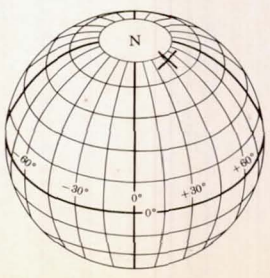



PLATE 36

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈109 KILOMETERS

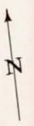
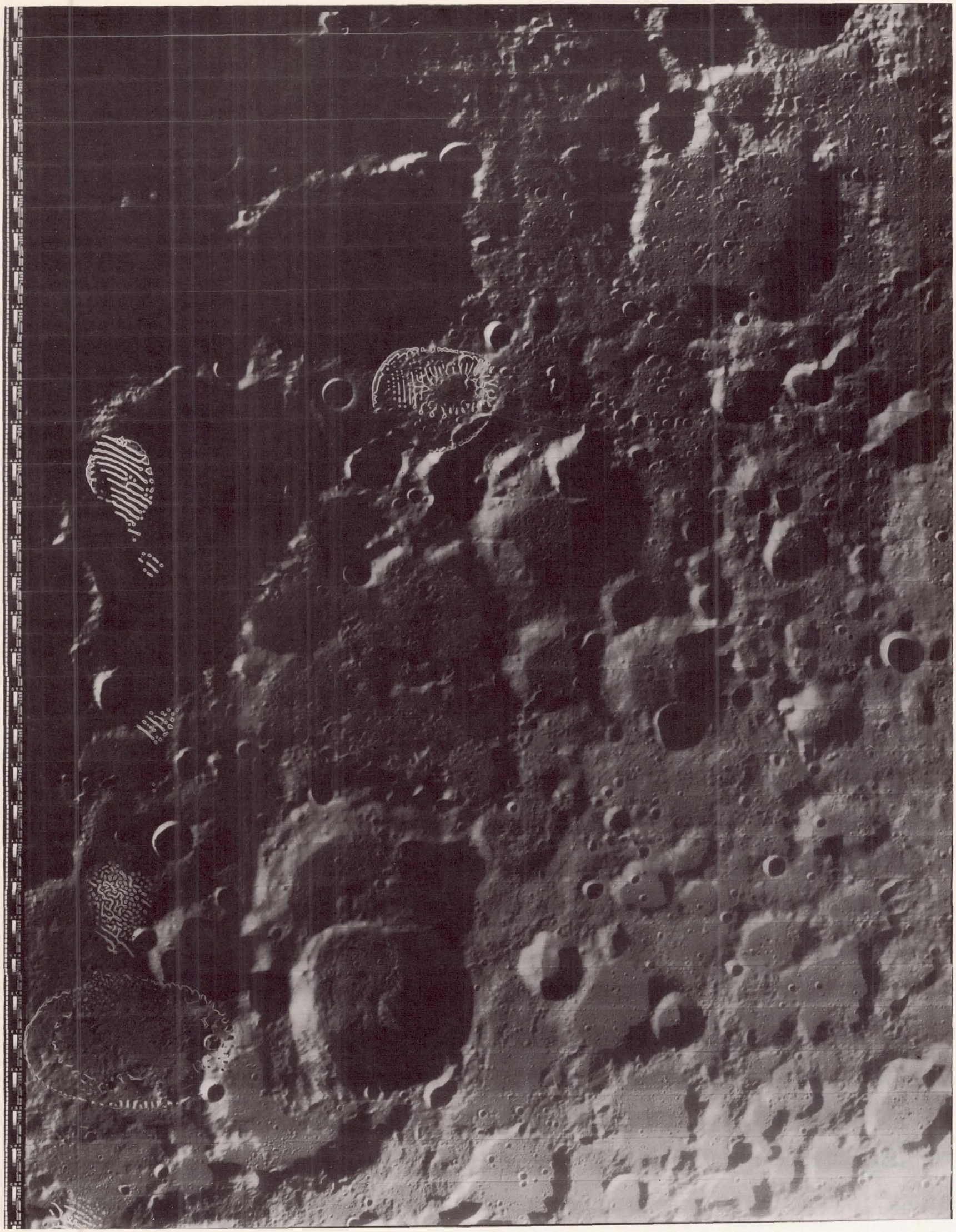



PHOTO NO. IV-80-M

CENTER COORDINATES ..... LONG. 46.09
LAT. 70.45
NORTH DEVIATION (DEG.) ..... 353.08
SUN ANGLE ..... 77.0
SPACECRAFT ALTITUDE (KM) ..... 3479.06

PLATE 37

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-80-H3

CENTER COORDINATES ..... LONG. 46.09
LAT. 70.45
NORTH DEVIATION (DEG.) ..... 353.08
SUN ANGLE ..... 77.0
SPACECRAFT ALTITUDE (KM) ..... 3479.03

N

1 CENTIMETER ≈ 14 KILOMETERS

DE SITTER .... H13

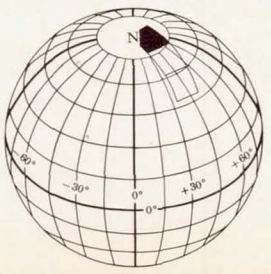
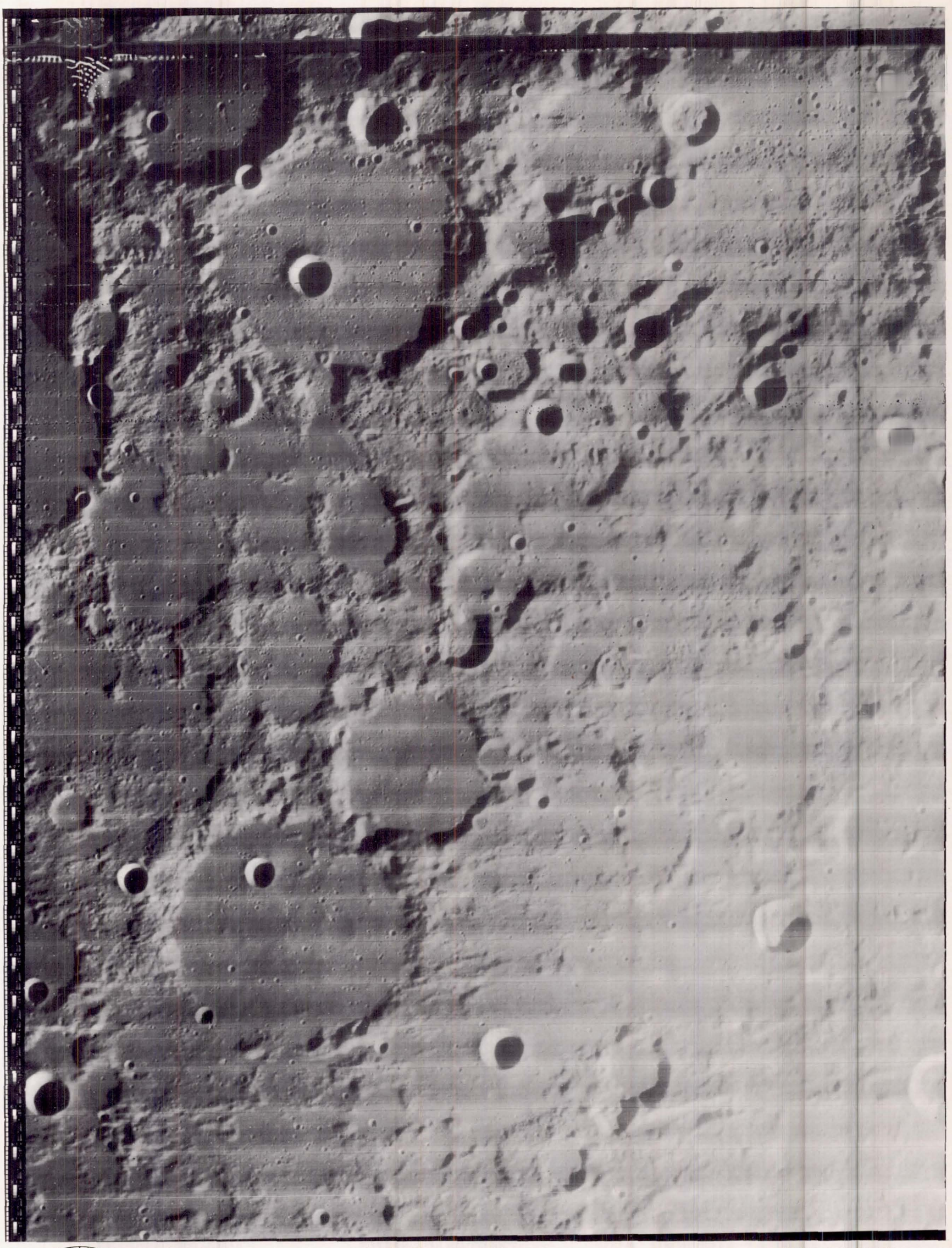



PLATE 38

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ARNOLD ..... D12
BAILLAUD ..... D3
EUCTEMON ..... C2

1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-80-H2

CENTER COORDINATES ..... LONG. 46.09
LAT. 70.45
NORTH DEVIATION (DEG.) ..... 353.08
SUN ANGLE ..... 77.0
SPACECRAFT ALTITUDE (KM) ..... 3479.03

PLATE 39

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

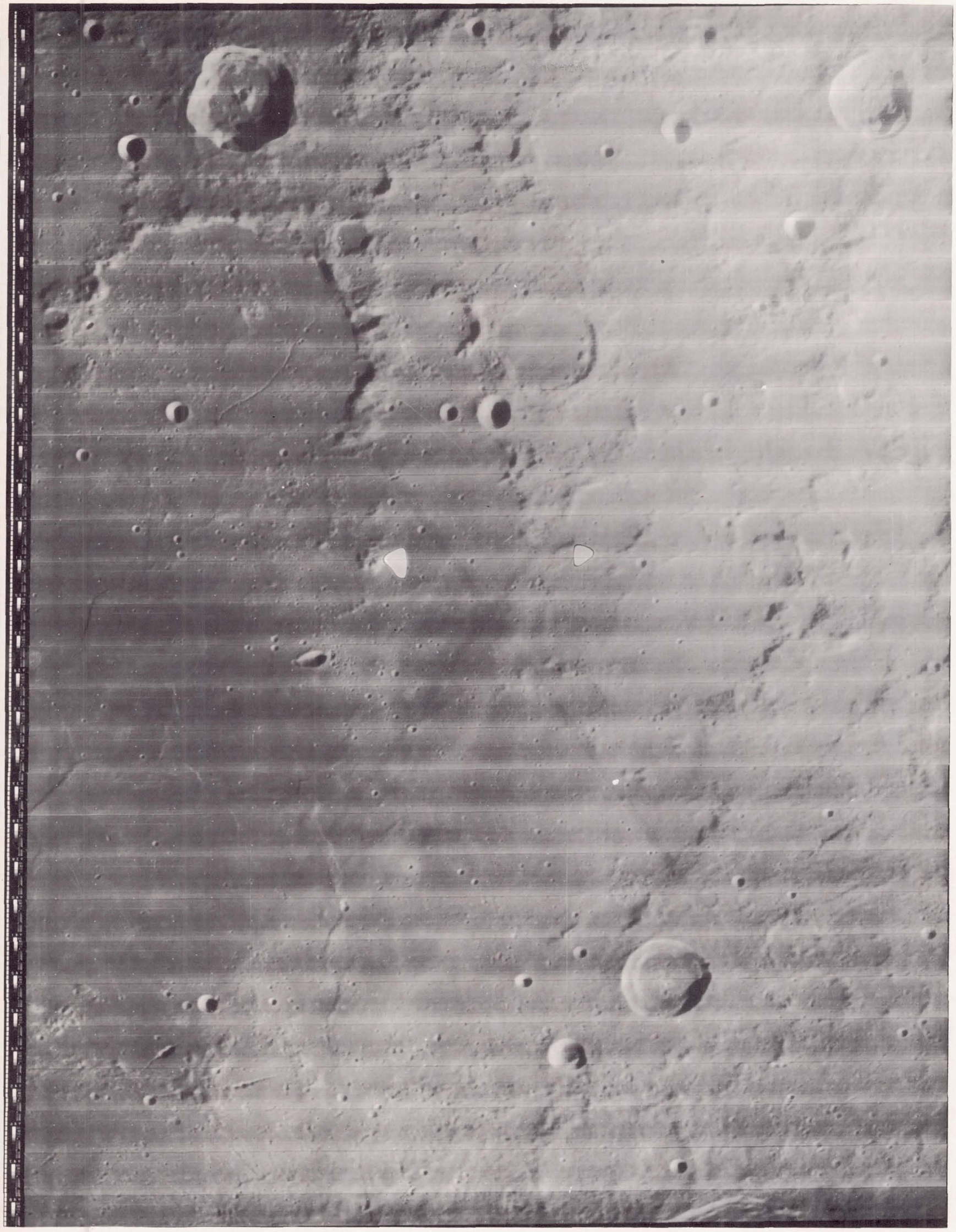


PHOTO NO. IV-80-H1

CENTER COORDINATES ..... LONG. 46.09
LAT. 70.45
NORTH DEVIATION (DEG.) ..... 353.08
SUN ANGLE ..... 77.0
SPACECRAFT ALTITUDE (KM) ..... 3479.03

N

1 CENTIMETER ≈ 14 KILOMETERS

DEMOCRITUS ..... J2
GARTNER ..... K5

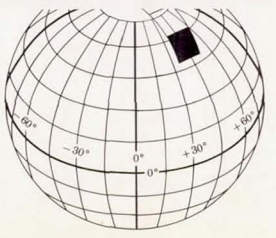
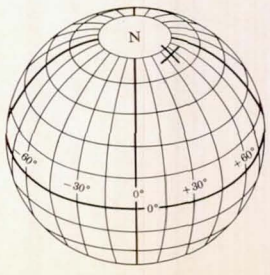



PLATE 40

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈110 KILOMETERS

N

PHOTO NO. IV-68-M

CENTER COORDINATES ..... LONG. 53.66
LAT. 70.93
NORTH DEVIATION (DEG.) ..... 354.04
SUN ANGLE ..... 78.5
SPACECRAFT ALTITUDE (KM) ..... 3487.77

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

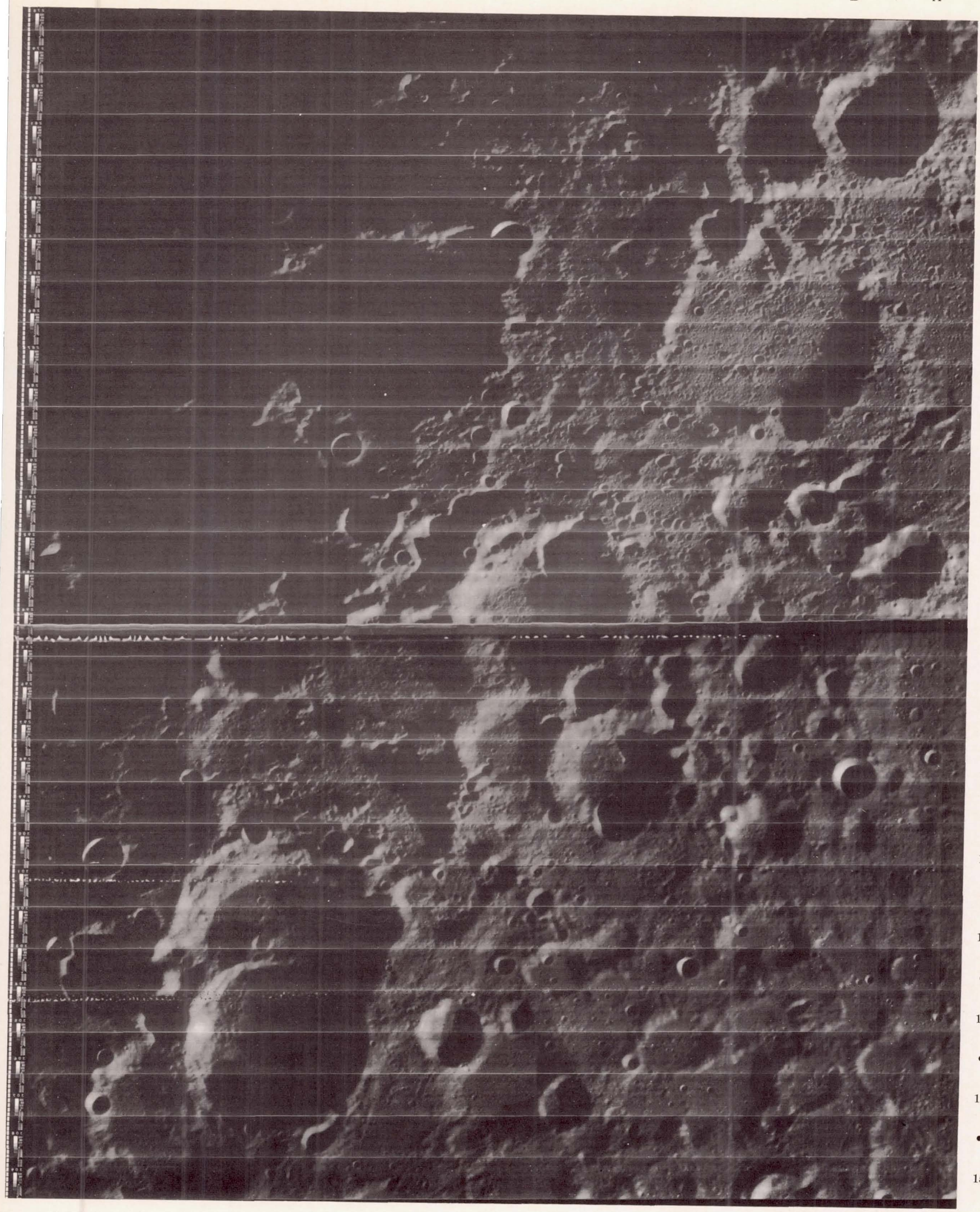


PHOTO NO. IV-68-H3

CENTER COORDINATES ..... LONG. 53.66
LAT. 70.93
NORTH DEVIATION (DEG.) ..... 354.04
SUN ANGLE ..... 78.5
SPACECRAFT ALTITUDE (KM) ..... 3487.74

N

1 CENTIMETER≈14 KILOMETERS

DE SITTER ....J14

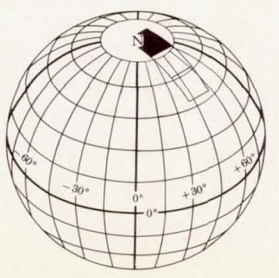
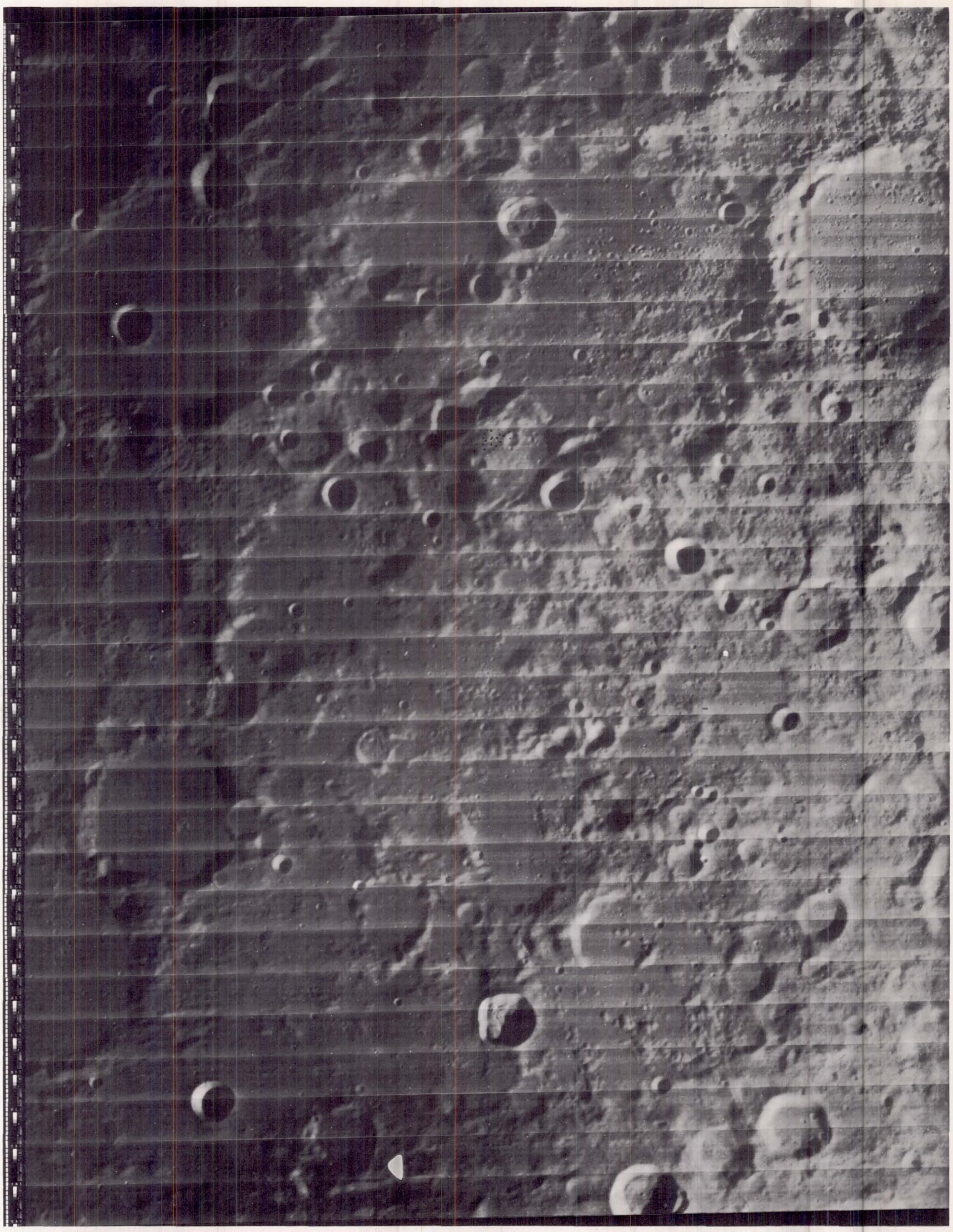
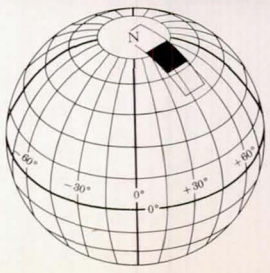



PLATE 42

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ARNOLD ..... A12
BAILLAUD ..... B4
EUCTEMON ..... A2

1 CENTIMETER ≈ 14 KILOMETERS

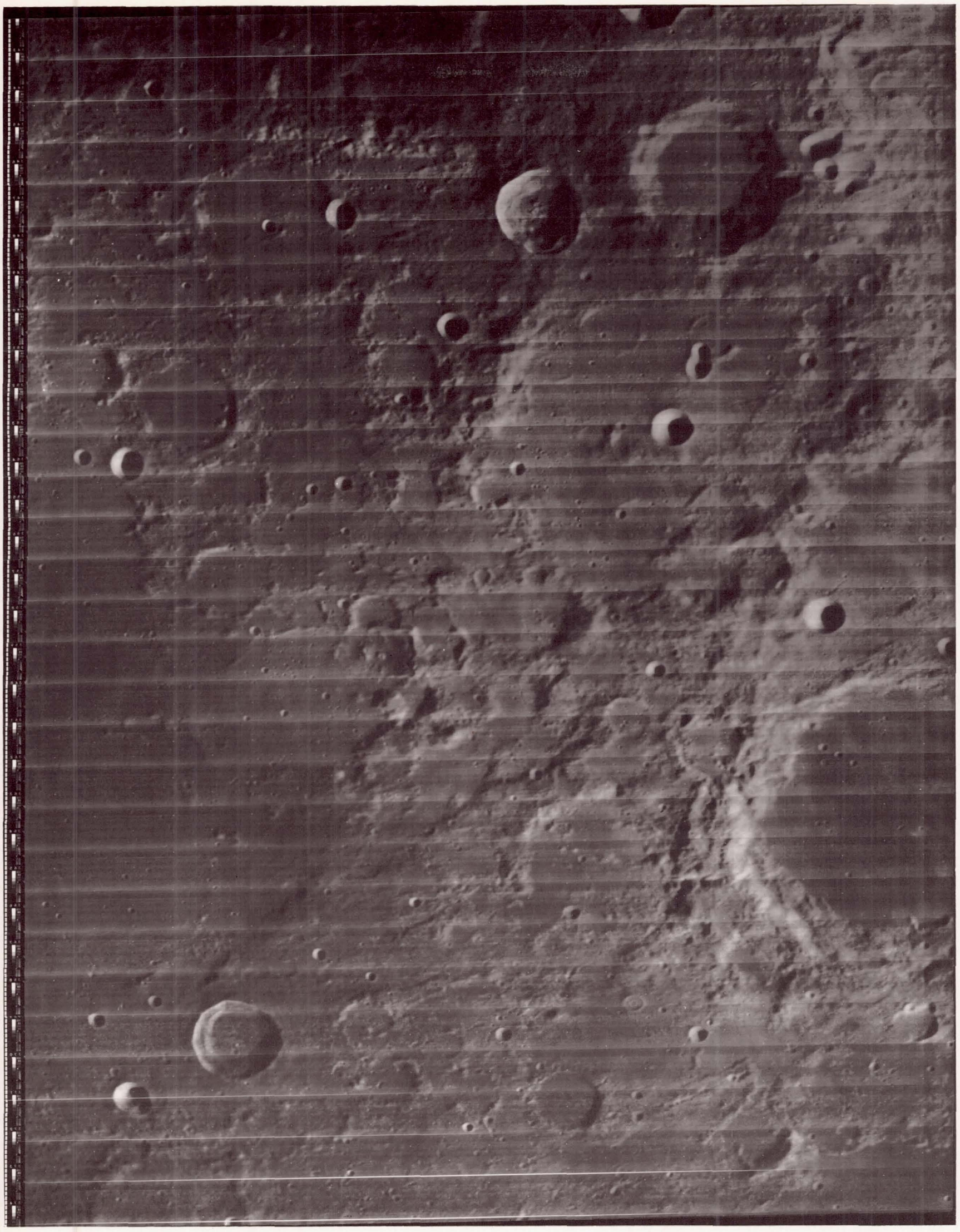
N

PHOTO NO. IV-68-H2

CENTER COORDINATES ..... LONG. 53.66
LAT. 70.93
NORTH DEVIATION (DEG.) ..... 354.04
SUN ANGLE ..... 78.5
SPACECRAFT ALTITUDE (KM) ..... 3487.74

PLATE 43

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-68- H1

CENTER COORDINATES ..... LONG. 53.66
LAT. 70.93
NORTH DEVIATION (DEG.) ..... 354.04
SUN ANGLE ..... 78.5
SPACECRAFT ALTITUDE (KM) ..... 3487.74

N

1 CENTIMETER≈14 KILOMETERS

DE LA RUE ..... D5
ENDYMION ..... A11
STRABO ..... D3
THALES ..... F3

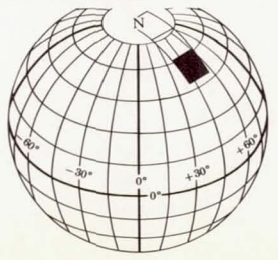
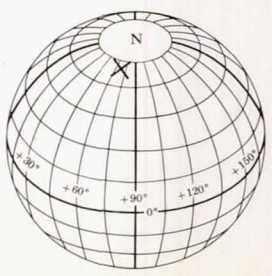



PLATE 44

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈110 KILOMETERS

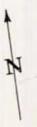



PHOTO NO. IV-56-M

CENTER COORDINATES ..... LONG. 68.44
LAT. 70.35
NORTH DEVIATION (DEG.) ..... 352.38
SUN ANGLE ..... 77.5
SPACECRAFT ALTITUDE (KM) .... 3494.65

PLATE 45

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

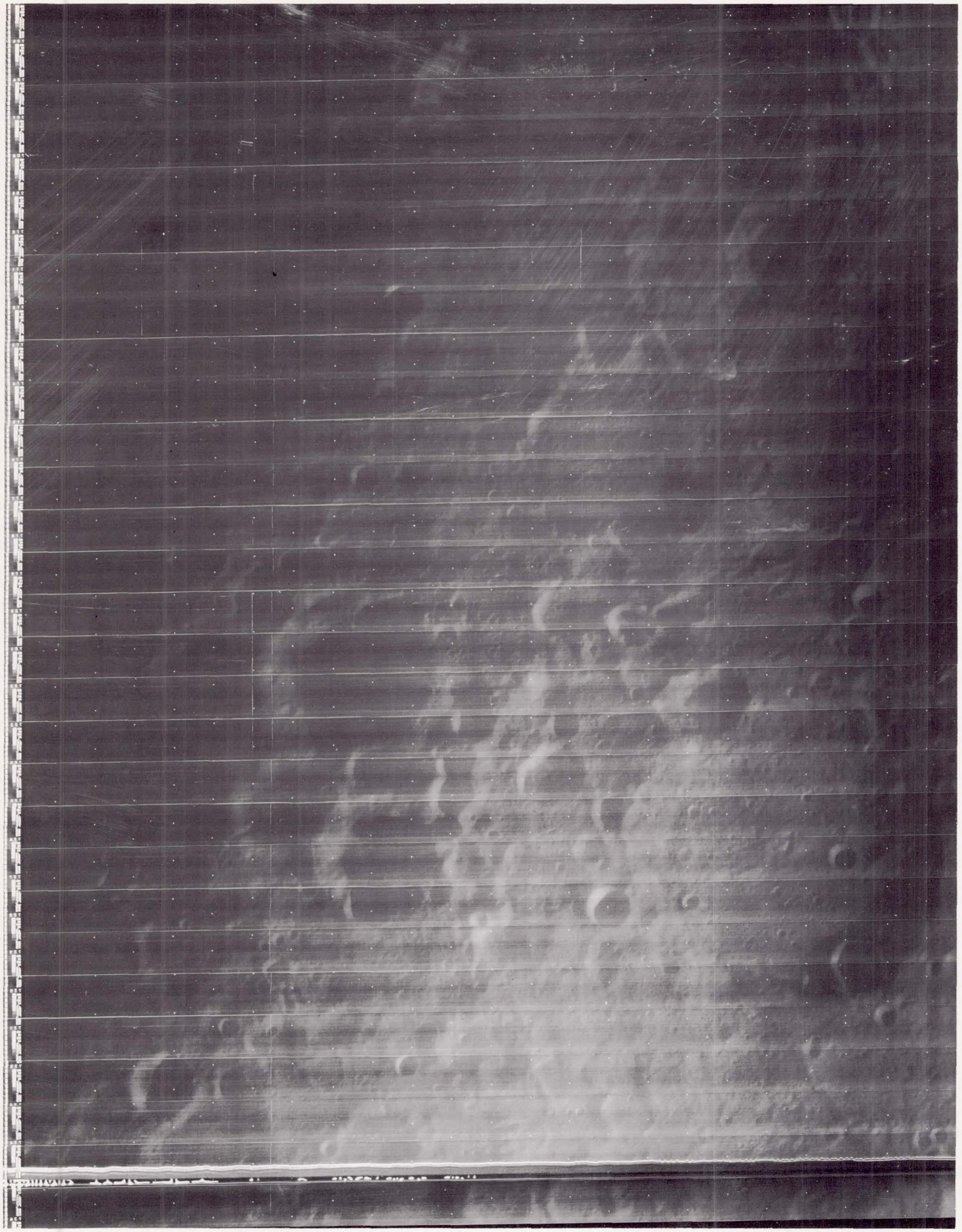


PHOTO NO. IV-56-H3

CENTER COORDINATES ..... LONG. 68.44
LAT. 70.35
NORTH DEVIATION (DEG.) ..... 352.38
SUN ANGLE ..... 77.5
SPACECRAFT ALTITUDE (KM) ..... 3494.62

N

1 CENTIMETER ≈ 14 KILOMETERS

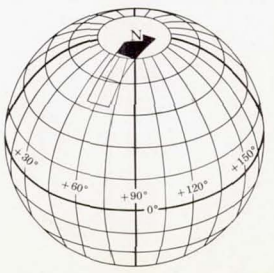
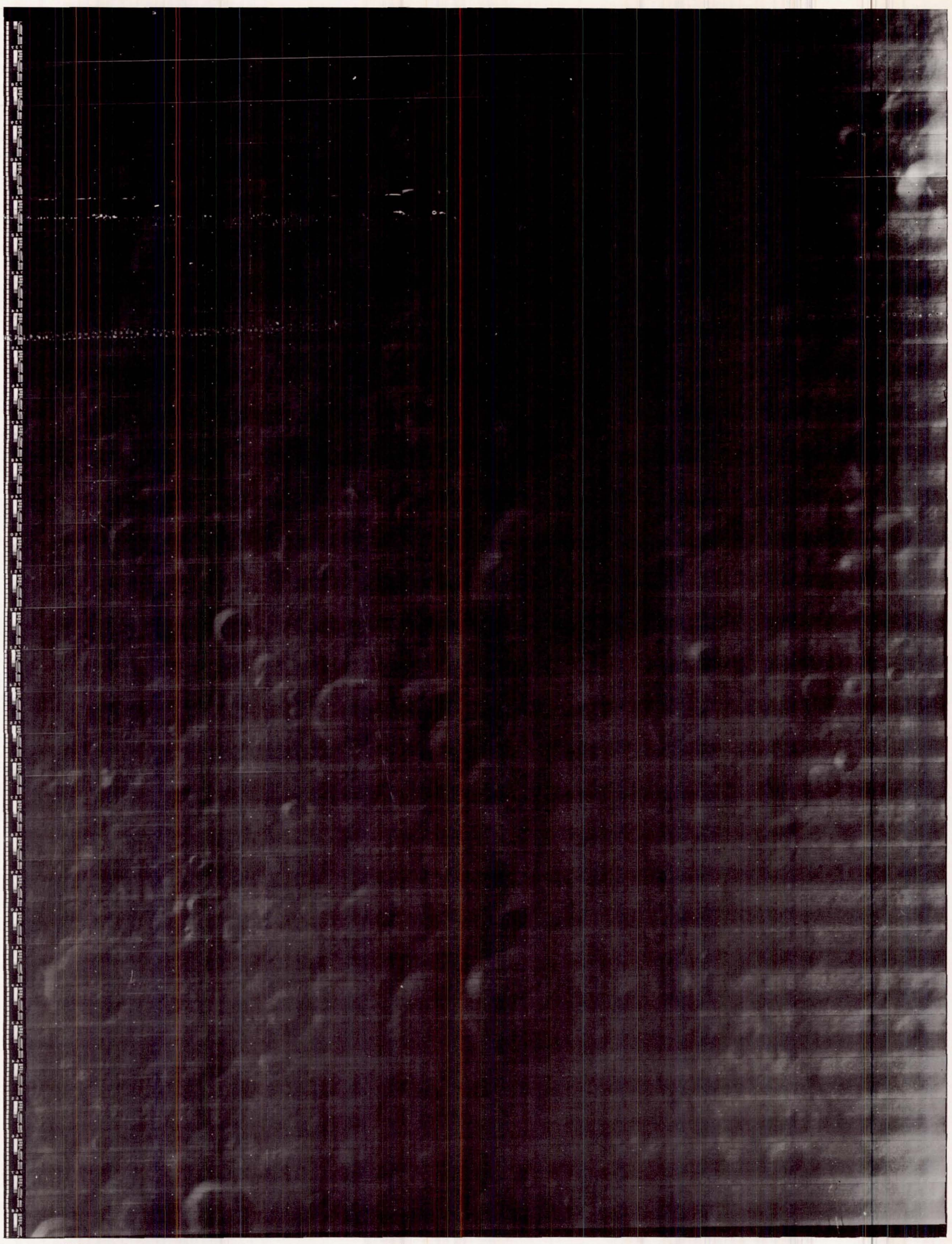
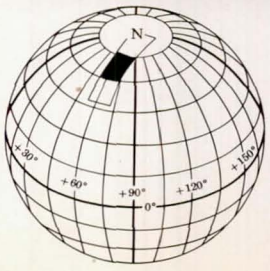



PLATE 46

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. IV-56-H2

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | 68.44 |
| | LAT. | 70.35 |
| NORTH DEVIATION (DEG.) | | 352.38 |
| SUN ANGLE | | 77.5 |
| SPACECRAFT ALTITUDE (KM) | | 3494.62 |

PLATE 47

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

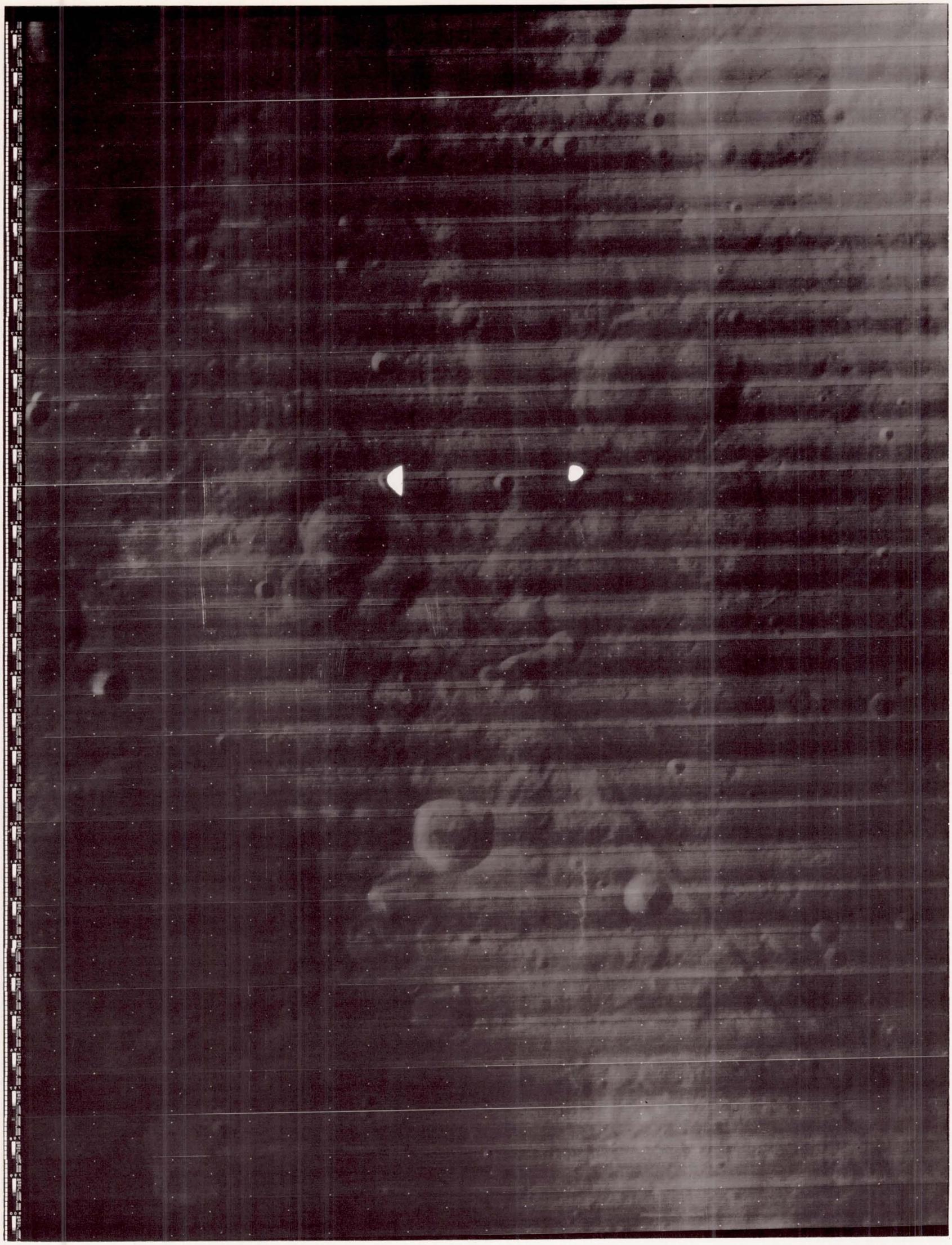


PHOTO NO. IV-56-H1

CENTER COORDINATES ..... LONG. 68.44
LAT. 70.35
NORTH DEVIATION (DEG.) ..... 352.38
SUN ANGLE ..... 77.5
SPACECRAFT ALTITUDE (KM) ..... 3494.62

N

1 CENTIMETER ≈ 14 KILOMETERS

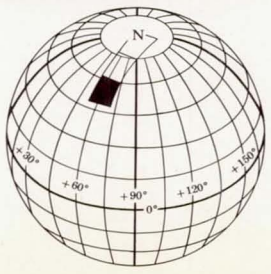
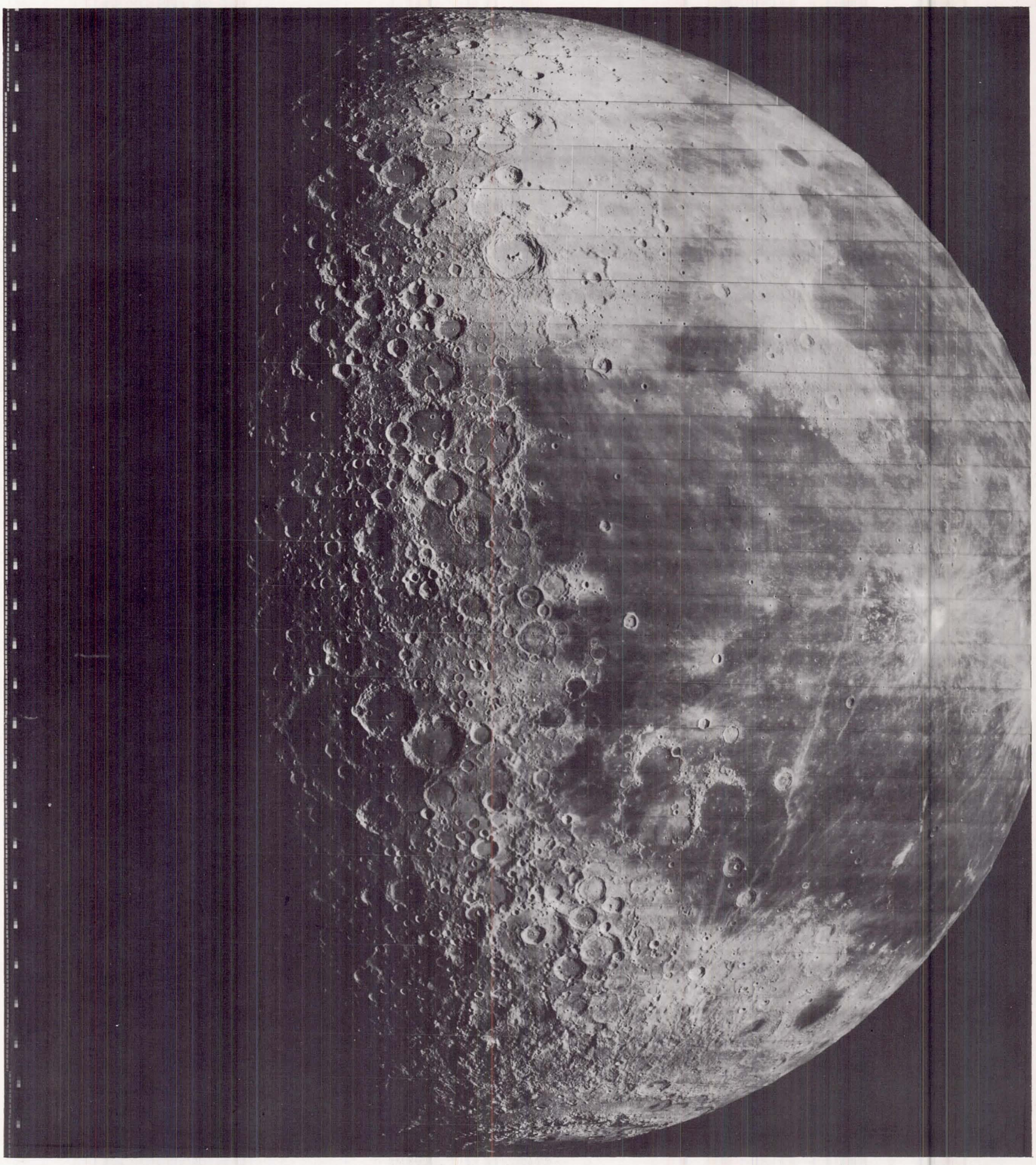
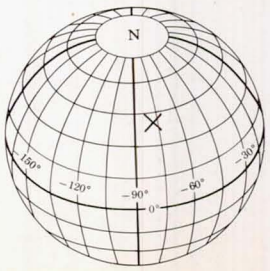



PLATE 48

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... J4
OCEANUS PROCELLARUM .... J7
SINUS RORIS ..... G6

1 CENTIMETER ≈ 91 KILOMETERS

N

PHOTO NO. IV-189-M

CENTER COORDINATES ..... LONG.–79.99
LAT. 41.71
NORTH DEVIATION (DEG.) ..... 340.43
SUN ANGLE ..... 71.6
SPACECRAFT ALTITUDE (KM) ..... 2877.89

PLATE 49

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-189-H3

CENTER COORDINATES ..... LONG.–79.99
LAT. 41.71
NORTH DEVIATION (DEG.) ..... 340.43
SUN ANGLE ..... 71.6
SPACECRAFT ALTITUDE (KM) ..... 2877.87

N

1 CENTIMETER≈12 KILOMETERS

REPSOLD .... K10

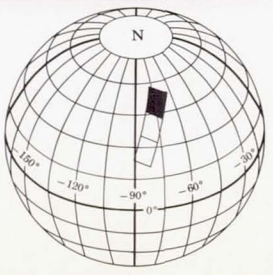
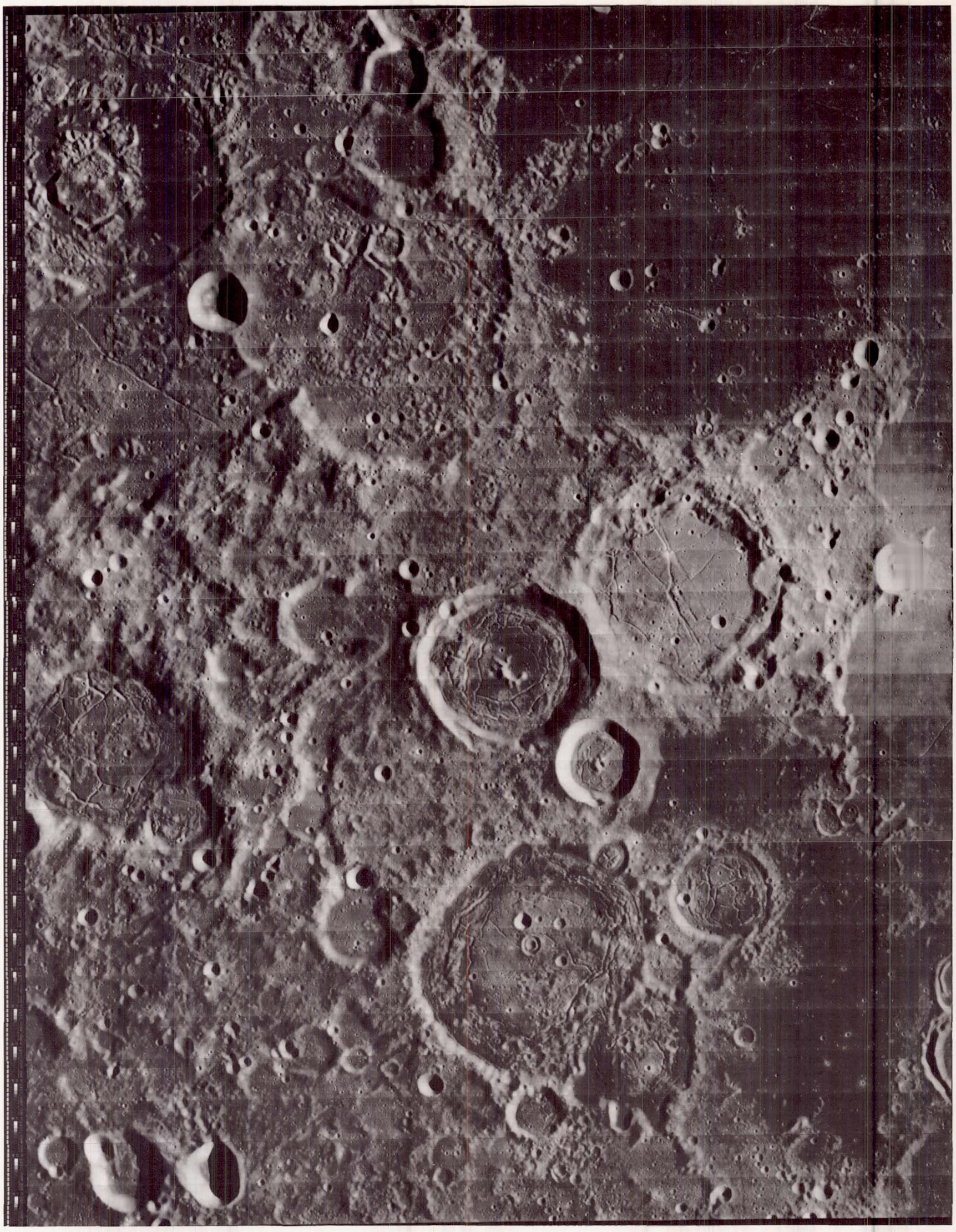
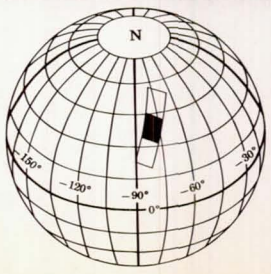



PLATE 50

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BUNSEN ..... A10
GERARD ..... E4
LAVOISIER ....G13

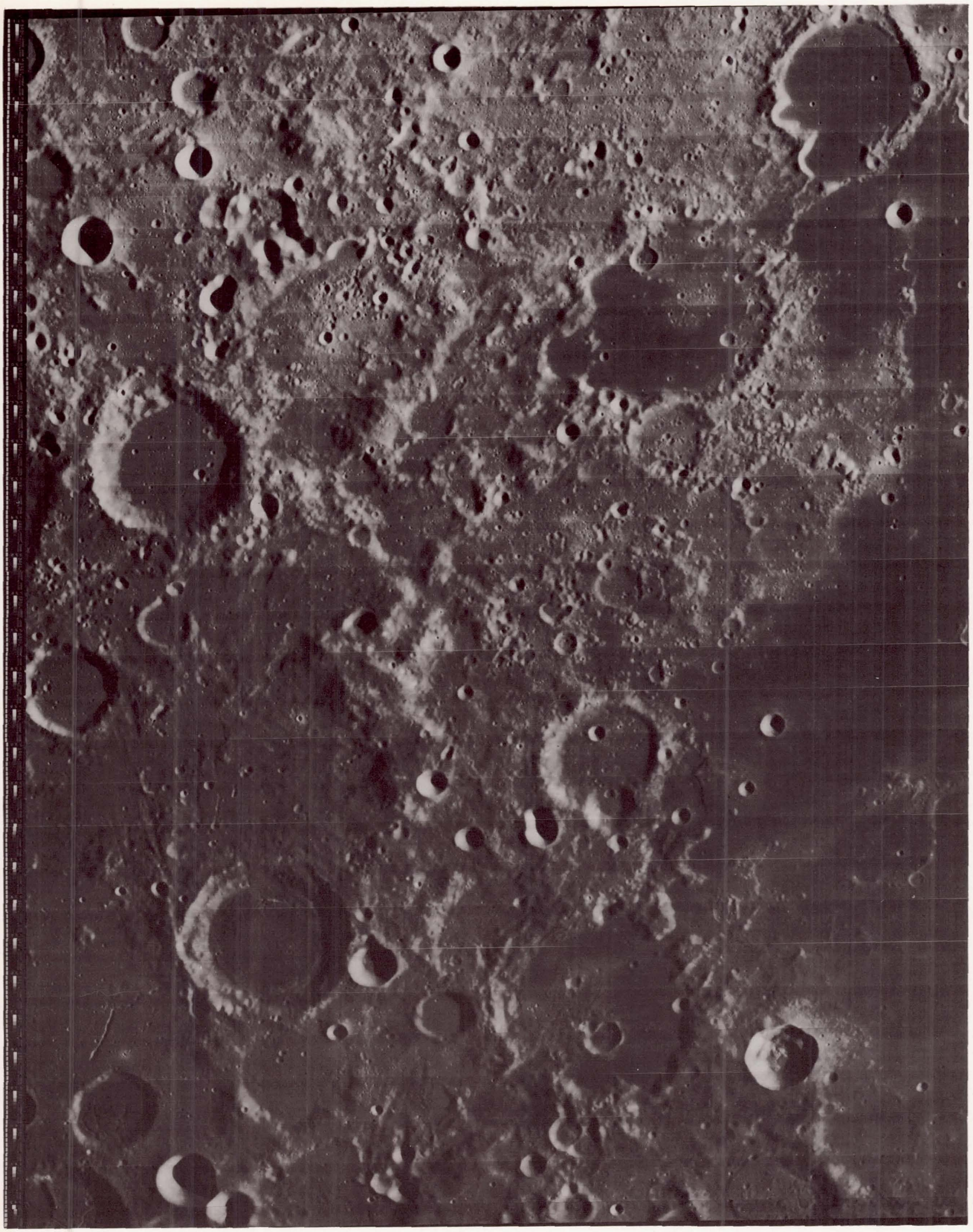
1 CENTIMETER ≈12 KILOMETERS

PHOTO NO. IV-189-H2

CENTER COORDINATES ..... LONG.–79.99
LAT. 41.71
NORTH DEVIATION (DEG.) ..... 340.43
SUN ANGLE ..... 71.6
SPACECRAFT ALTITUDE (KM) ..... 2877.87

PLATE 51

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-189-H1

CENTER COORDINATES ..... LONG.–79.99
LAT. 41.71
NORTH DEVIATION (DEG.) ..... 340.43
SUN ANGLE ..... 71.6
SPACECRAFT ALTITUDE (KM) ..... 2877.87

1 CENTIMETER ≈ 12 KILOMETERS

ASTON ..... K6
ULUGH BEIGH .... D4

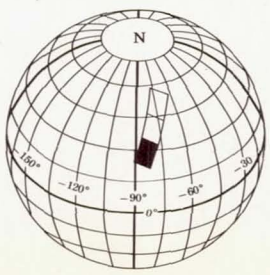
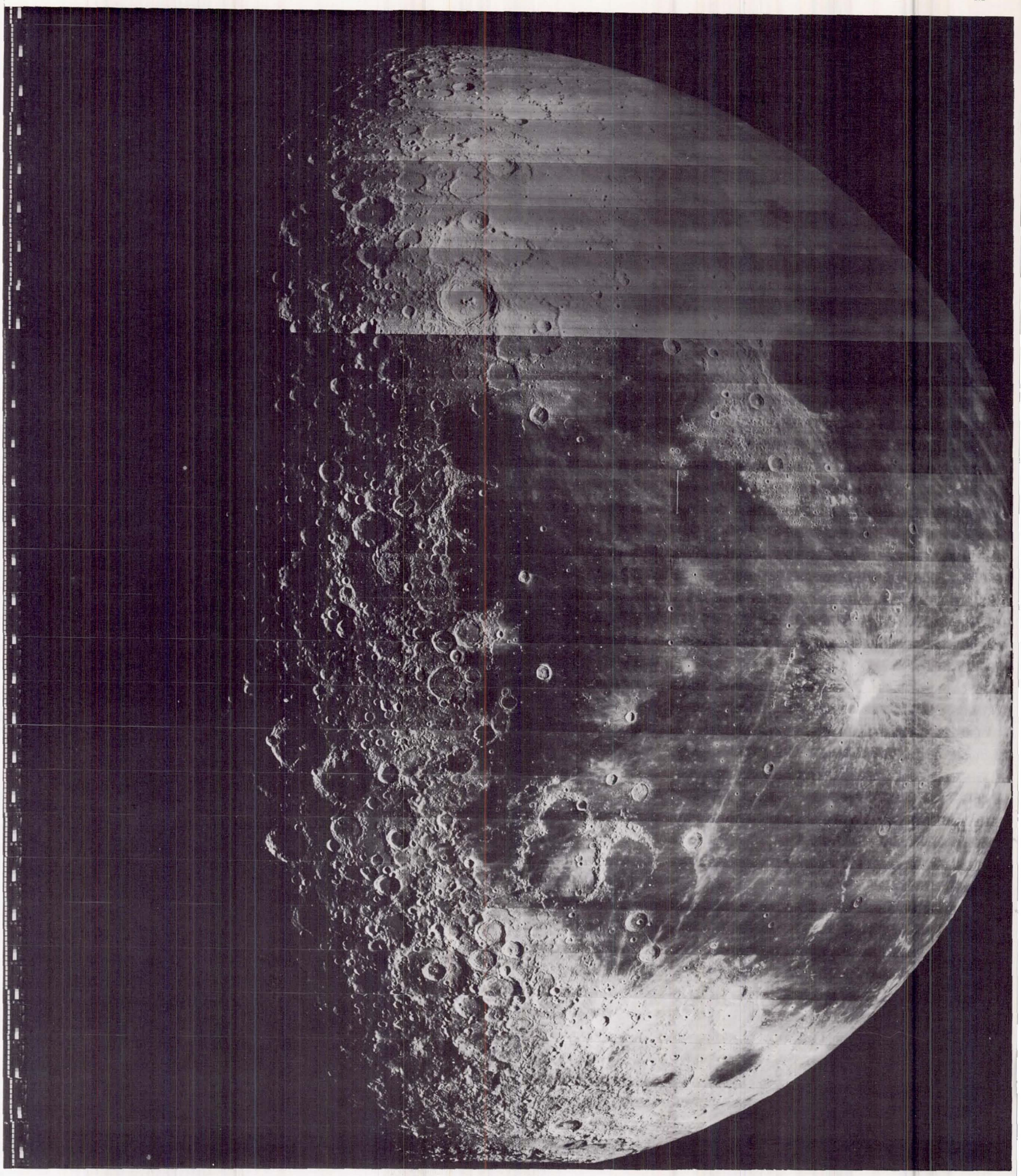
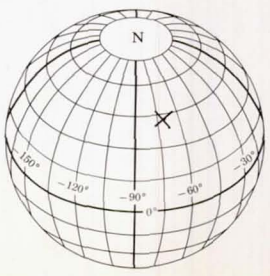



PLATE 52




OCEANUS PROCELLARUM ... J10
SINUS RORIS ..... H5

1 CENTIMETER ≈ 91 KILOMETERS




PHOTO NO. IV-183-M

CENTER COORDINATES ..... LONG.–71.01
LAT. 43.52
NORTH DEVIATION (DEG.) ..... 338.73
SUN ANGLE ..... 70.2
SPACE CRAFT ALTITUDE (KM) ..... 2874.61

PLATE 53

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

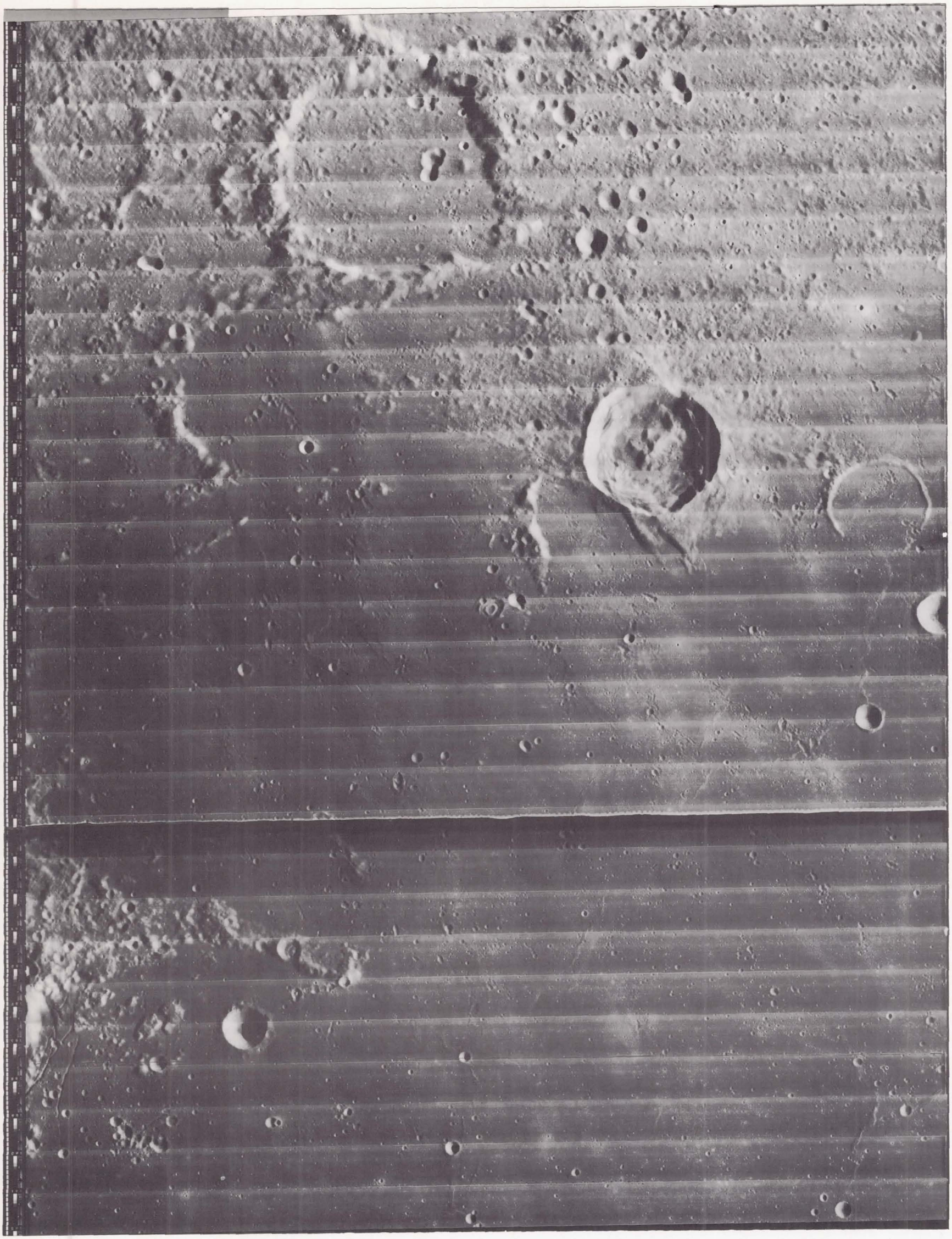


PHOTO NO. IV-183-H3

CENTER COORDINATES ..... LONG.–71.01
LAT. 43.52
NORTH DEVIATION (DEG.) ..... 338.73
SUN ANGLE ..... 70.2
SPACE CRAFT ALTITUDE (KM) ..... 2874.59

N

1 CENTIMETER≈12 KILOMETERS

MARKOV ..... D6
OENOPIDES .... H3

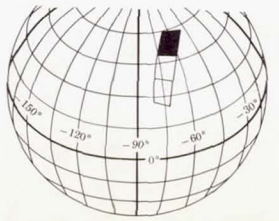
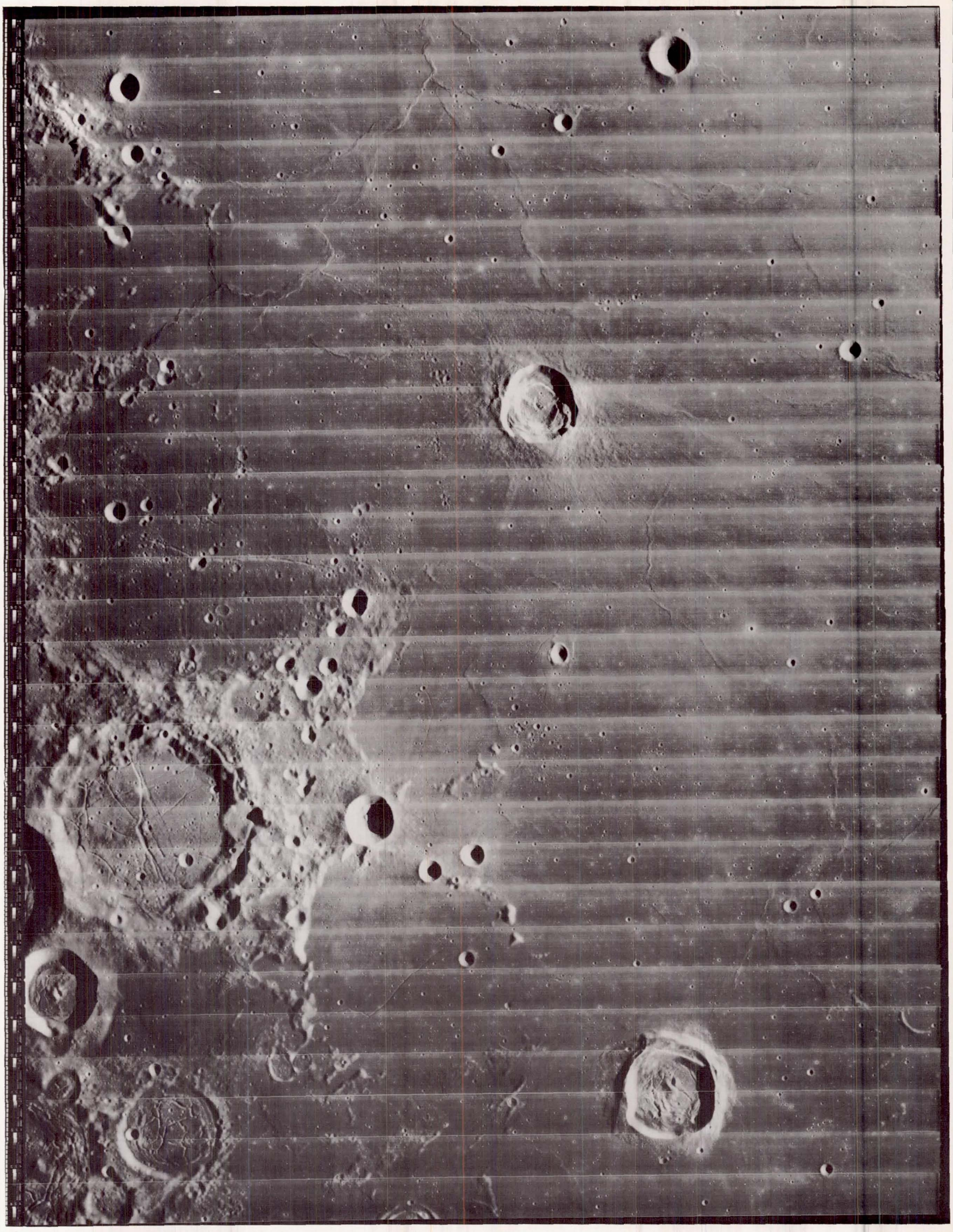
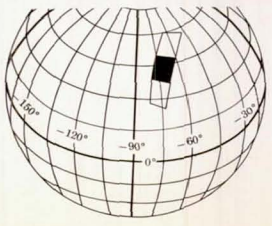



PLATE 54




DECHIN .....J1
HARDING ...G5

1 CENTIMETER ≈12 KILOMETERS

N

PHOTO NO. IV-183-H2

CENTER COORDINATES ..... LONG.–71.01
LAT. 43.52
NORTH DEVIATION (DEG.) ..... 338.73
SUN ANGLE ..... 70.2
SPACE CRAFT ALTITUDE (KM) ..... 2874.59

PLATE 55

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

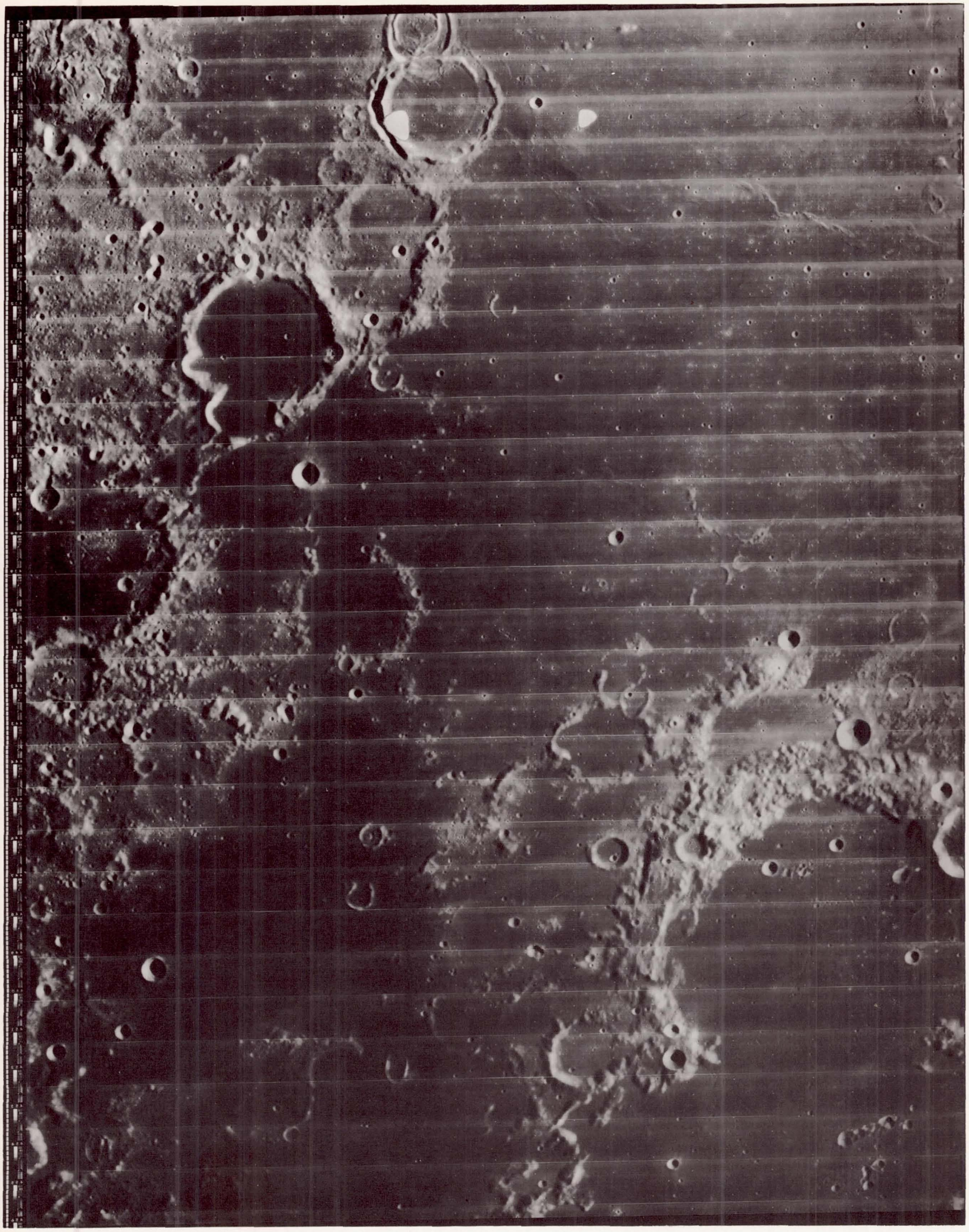


PHOTO NO. IV-183-H1

CENTER COORDINATES ..... LONG.–71.01
LAT. 43.52
NORTH DEVIATION (DEG.) ..... 338.73
SUN ANGLE ..... 70.2
SPACE CRAFT ALTITUDE (KM) ..... 2874.59

N

1 CENTIMETER ≈ 12 KILOMETERS

ULUGH BEIGH .... L7

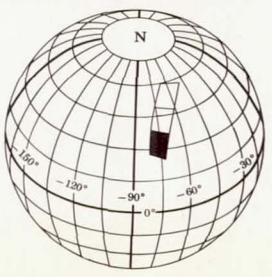
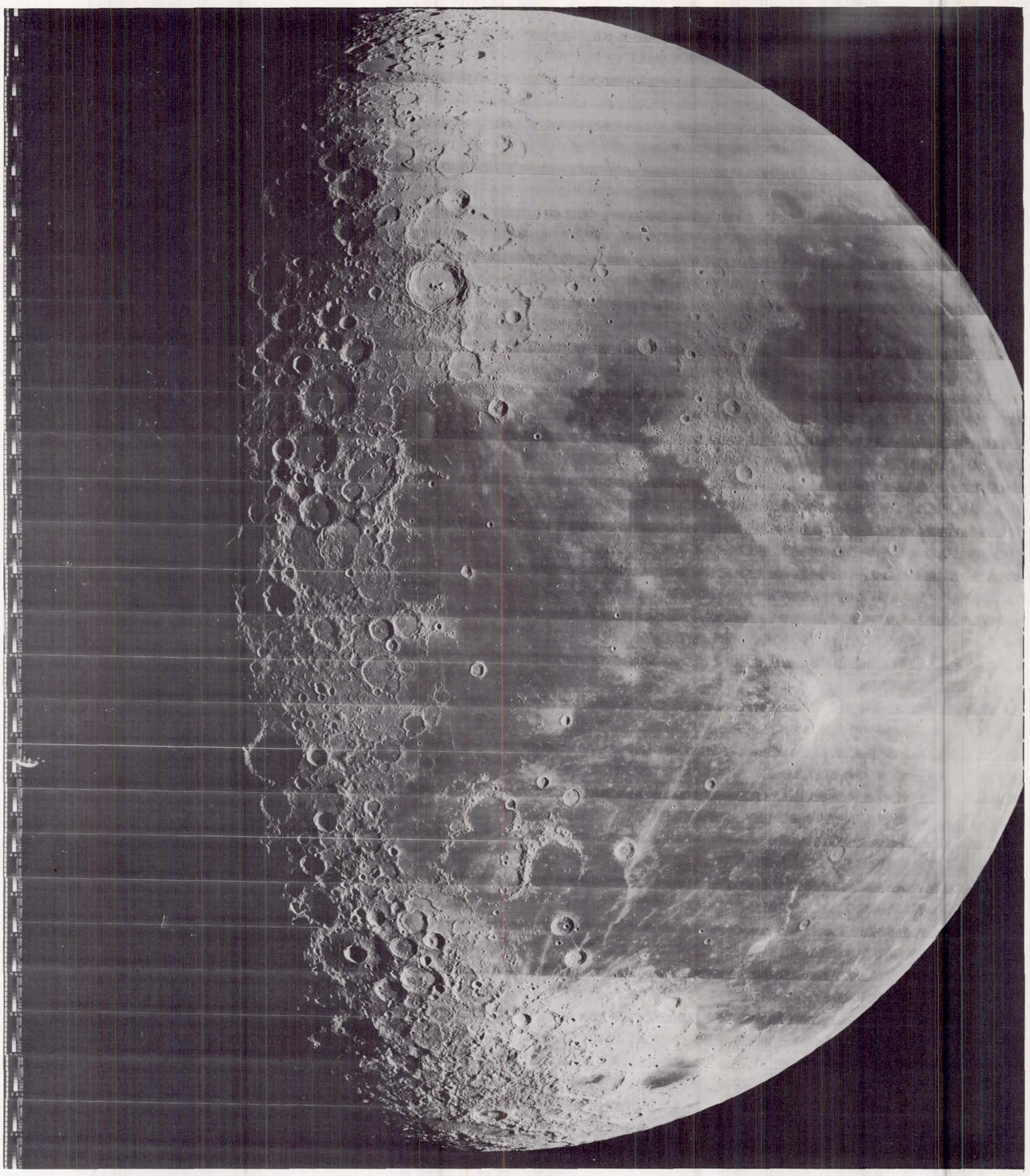
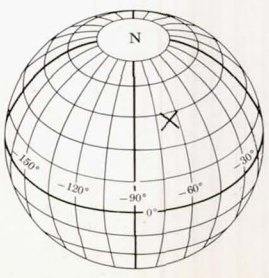



PLATE 56

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






SINUS RORIS ..... G6
MARE FRIGORIS ... H5
SINUS IRIDUM ..... K5
MARE IMBRIUM ... L5

1 CENTIMETER ≈ 91 KILOMETERS

N

PHOTO NO. IV-175-M

CENTER COORDINATES ..... LONG.–66.78
LAT. 41.29
NORTH DEVIATION (DEG.) ..... 340.50
SUN ANGLE ..... 70.8
SPACECRAFT ALTITUDE (KM) ..... 2871.78

PLATE 57

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

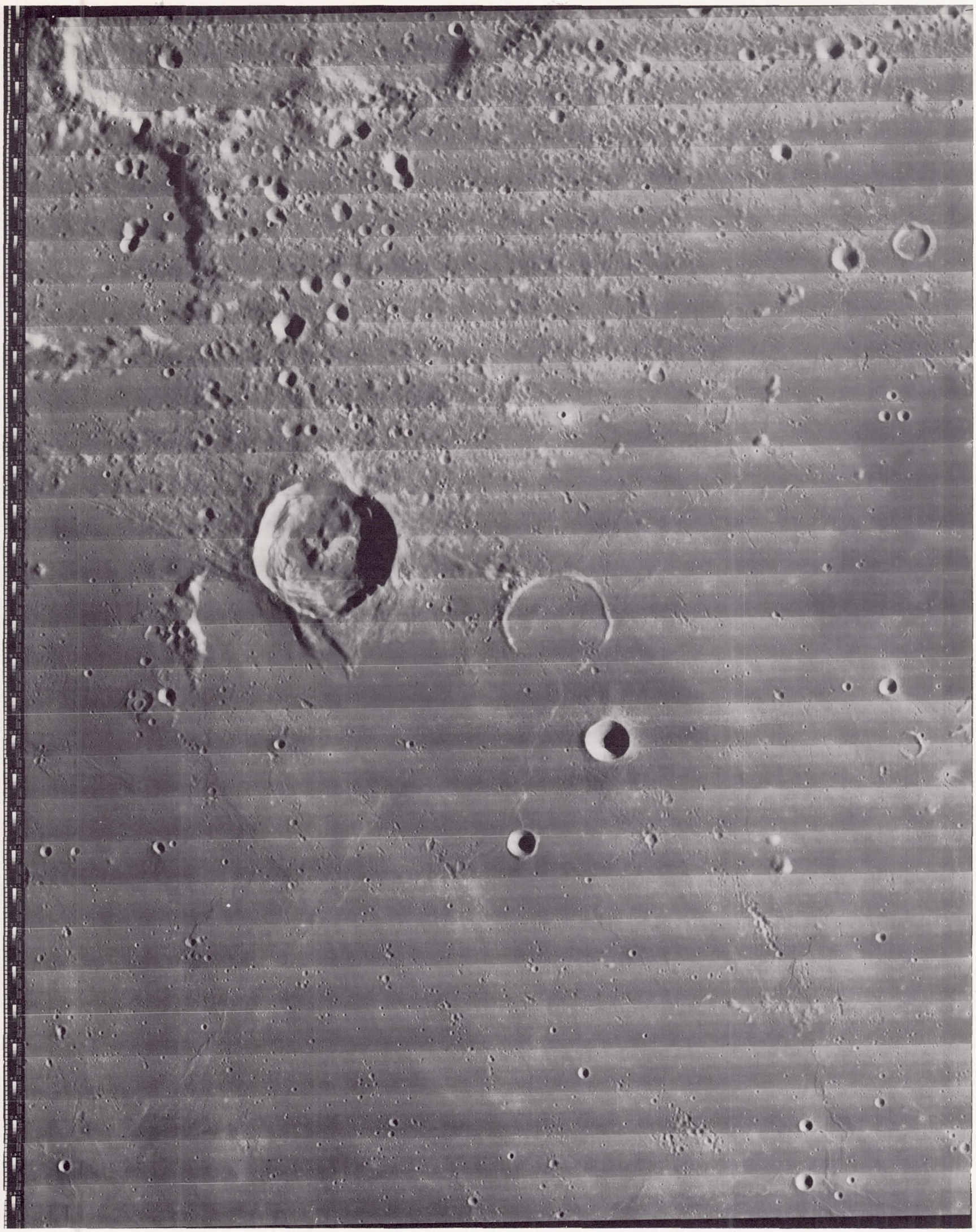


PHOTO NO. IV-175-H3

CENTER COORDINATES ..... LONG.–66.78
LAT. 41.29
NORTH DEVIATION (DEG.) ..... 340.50
SUN ANGLE ..... 70.8
SPACECRAFT ALTITUDE (KM) ..... 2871.76

N

1 CENTIMETER≈12 KILOMETERS

MARKOV ..... H7
OENOPIDES .... L3

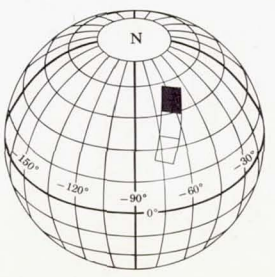
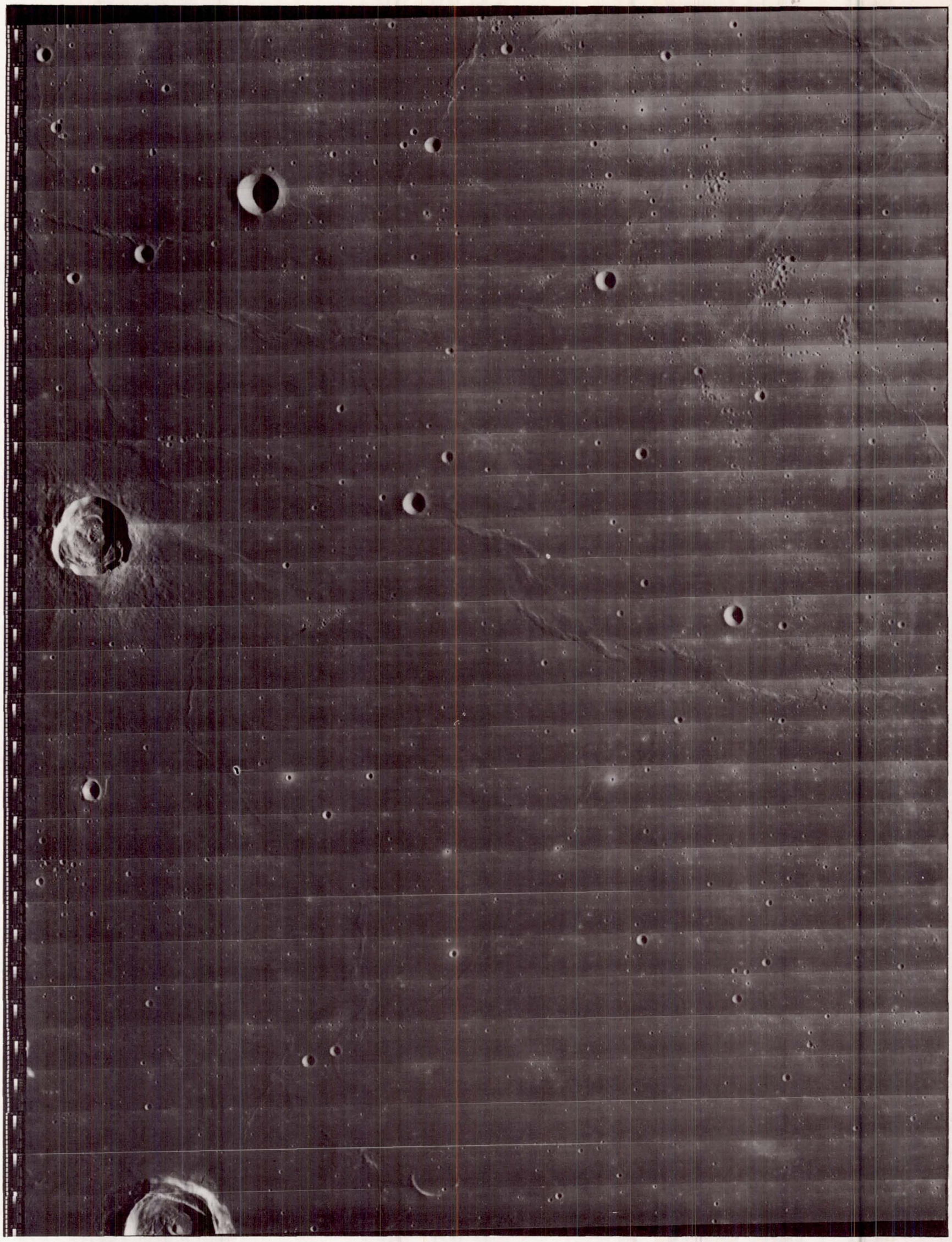
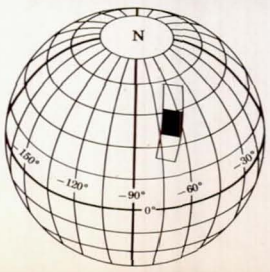



PLATE 58






DECHEN ..... C3
HARDING ..... A7

1 CENTIMETER ≈ 12 KILOMETERS

PHOTO NO. IV-175-H2

CENTER COORDINATES ..... LONG. –66.78
LAT. 41.29
NORTH DEVIATION (DEG.) ..... 340.50
SUN ANGLE ..... 70.8
SPACECRAFT ALTITUDE (KM) ..... 2871.76

PLATE 59

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

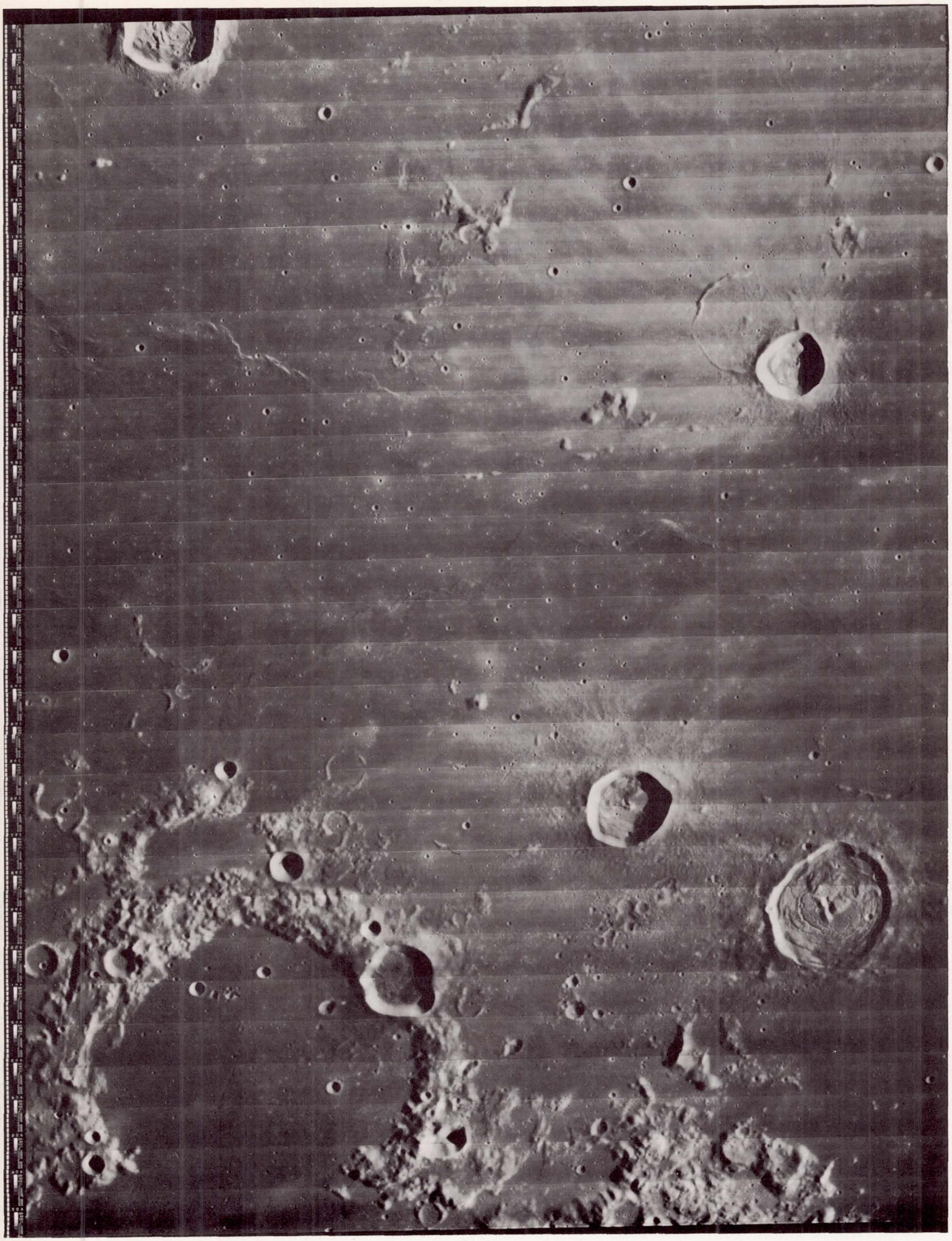


PHOTO NO. IV-175-H1

CENTER COORDINATES ..... LONG.–66.78
LAT. 41.29
NORTH DEVIATION (DEG.) ..... 340.50
SUN ANGLE ..... 70.8
SPACECRAFT ALTITUDE (KM) ..... 2871.76

N

1 CENTIMETER ≈ 12 KILOMETERS

BRIGGS ..... B12
RUSSELL ..... J14

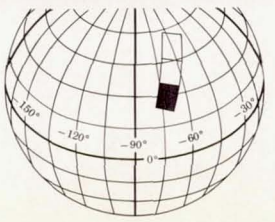
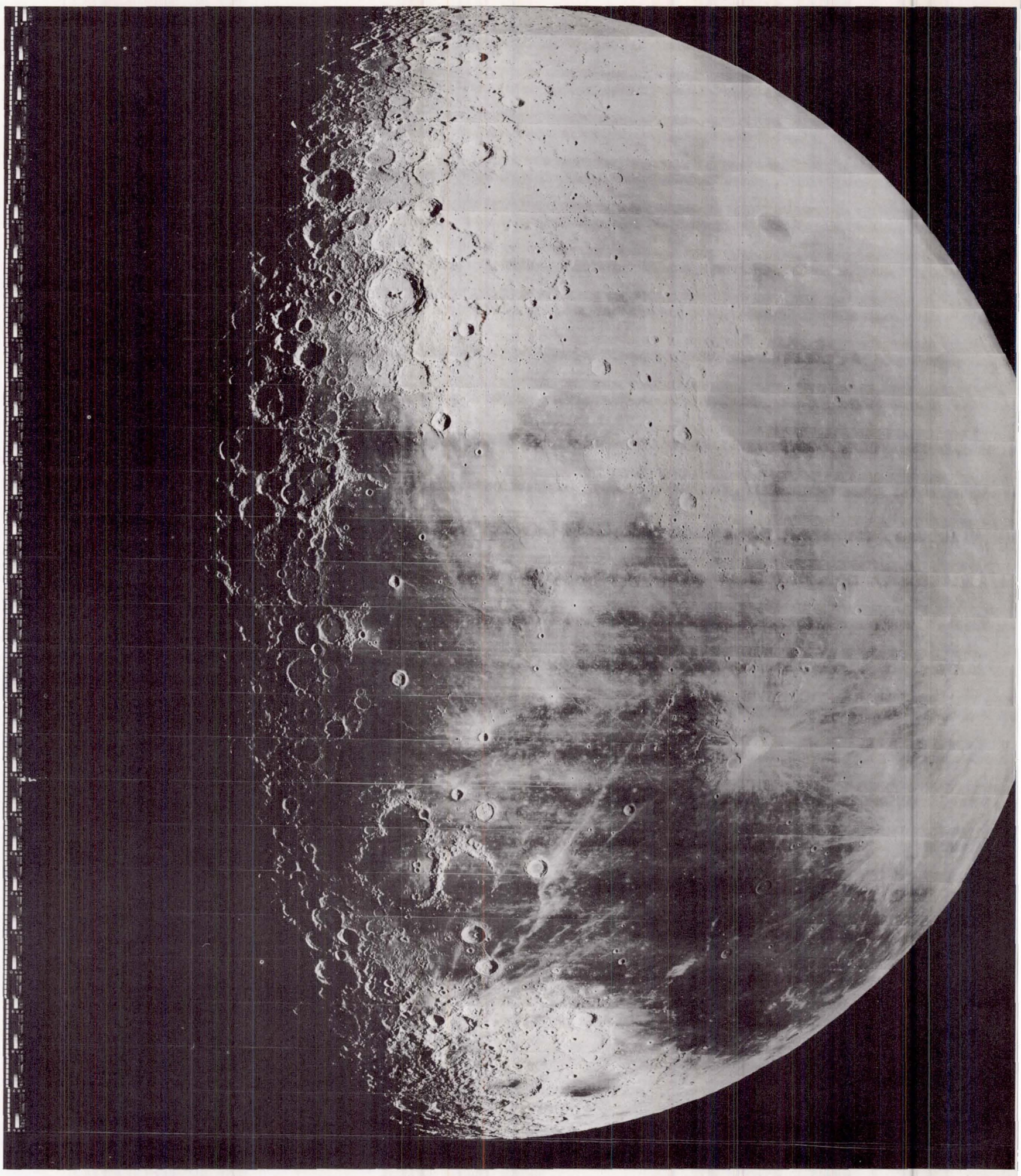
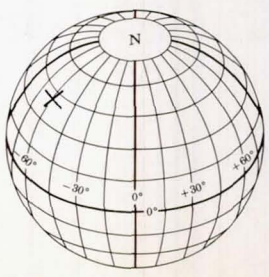



PLATE 60

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






OCEANUS PROCELLARUM ..... D11
SINUS RORIS ..... E7

1 CENTIMETER ≈ 91 KILOMETERS




PHOTO NO. IV-170-M

CENTER COORDINATES ..... LONG.–59.60
LAT. 41.77
NORTH DEVIATION (DEG.) ..... 339.57
SUN ANGLE ..... 70.2
SPACE CRAFT ALTITUDE (KM) ..... 2870.66

PLATE 61

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

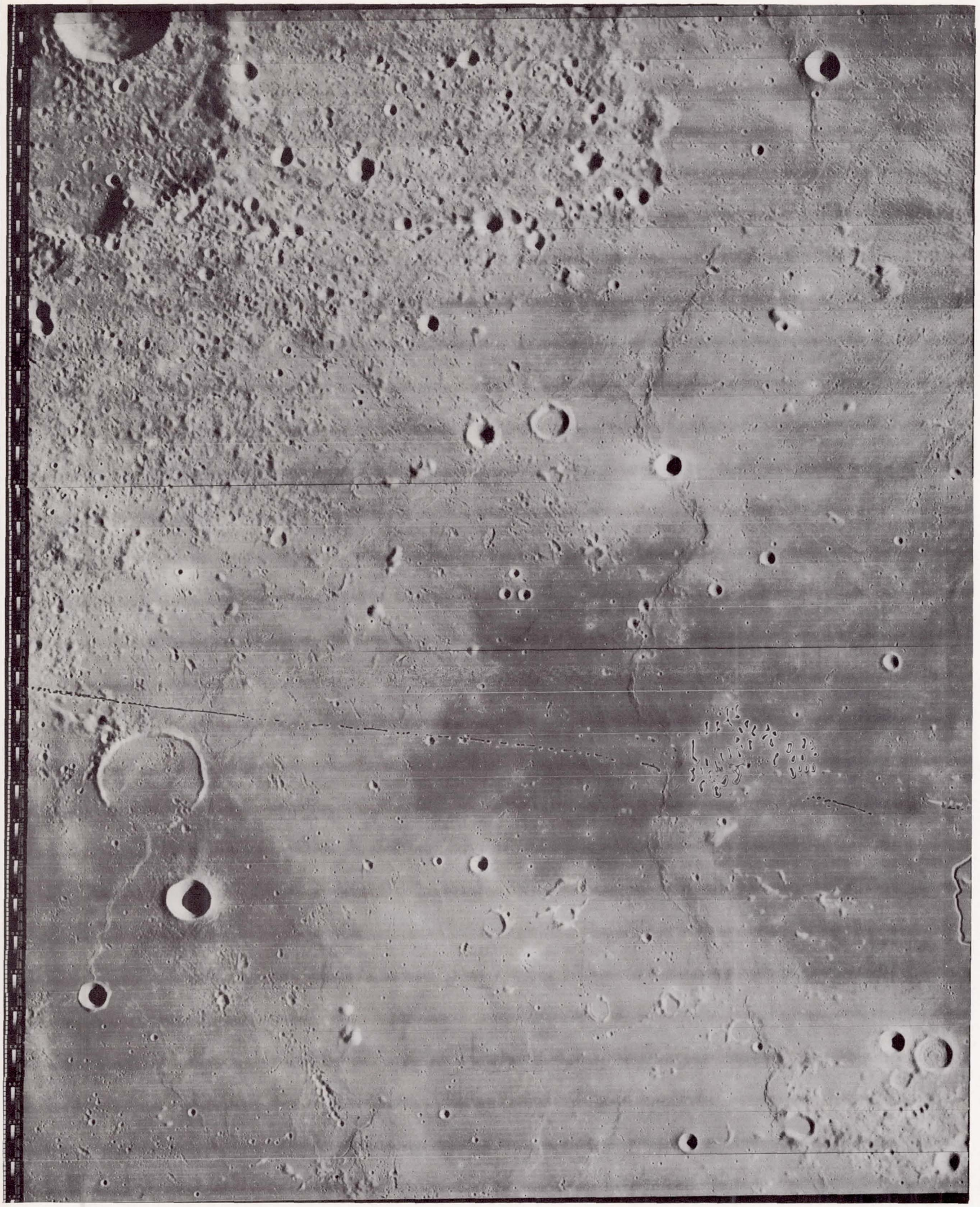


PHOTO NO. IV-170-H3

CENTER COORDINATES ..... LONG—59.60
LAT. 41.77
NORTH DEVIATION (DEG.) ..... 339.57
SUN ANGLE ..... 70.2
SPACE CRAFT ALTITUDE (KM) ..... 2870.64

N

1 CENTIMETER ≈ 12 KILOMETERS

LOUVILLE D .... A13
SINUS RORIS ..... F9

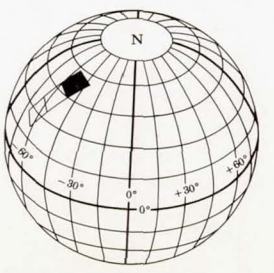
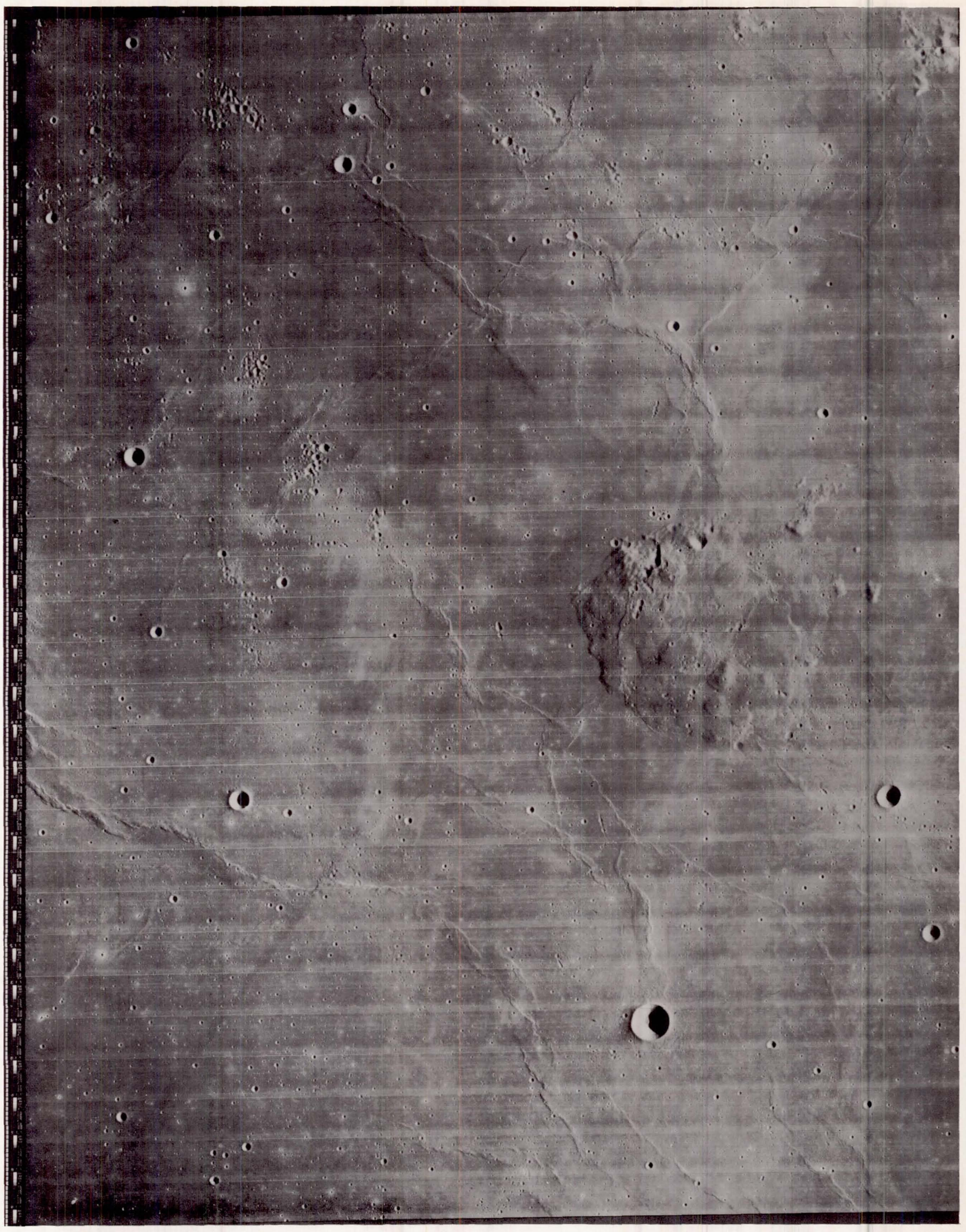
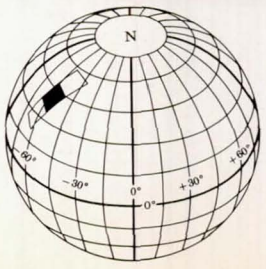



PLATE 62

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






RÜMKER ..... J8

1 CENTIMETER≈12 KILOMETERS

PHOTO NO. IV-170-H2

CENTER COORDINATES ..... LONG–59.60
LAT. 41.77
NORTH DEVIATION (DEG.) ..... 339.57
SUN ANGLE ..... 70.2
SPACE CRAFT ALTITUDE (KM) ..... 2870.64

PLATE 63

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

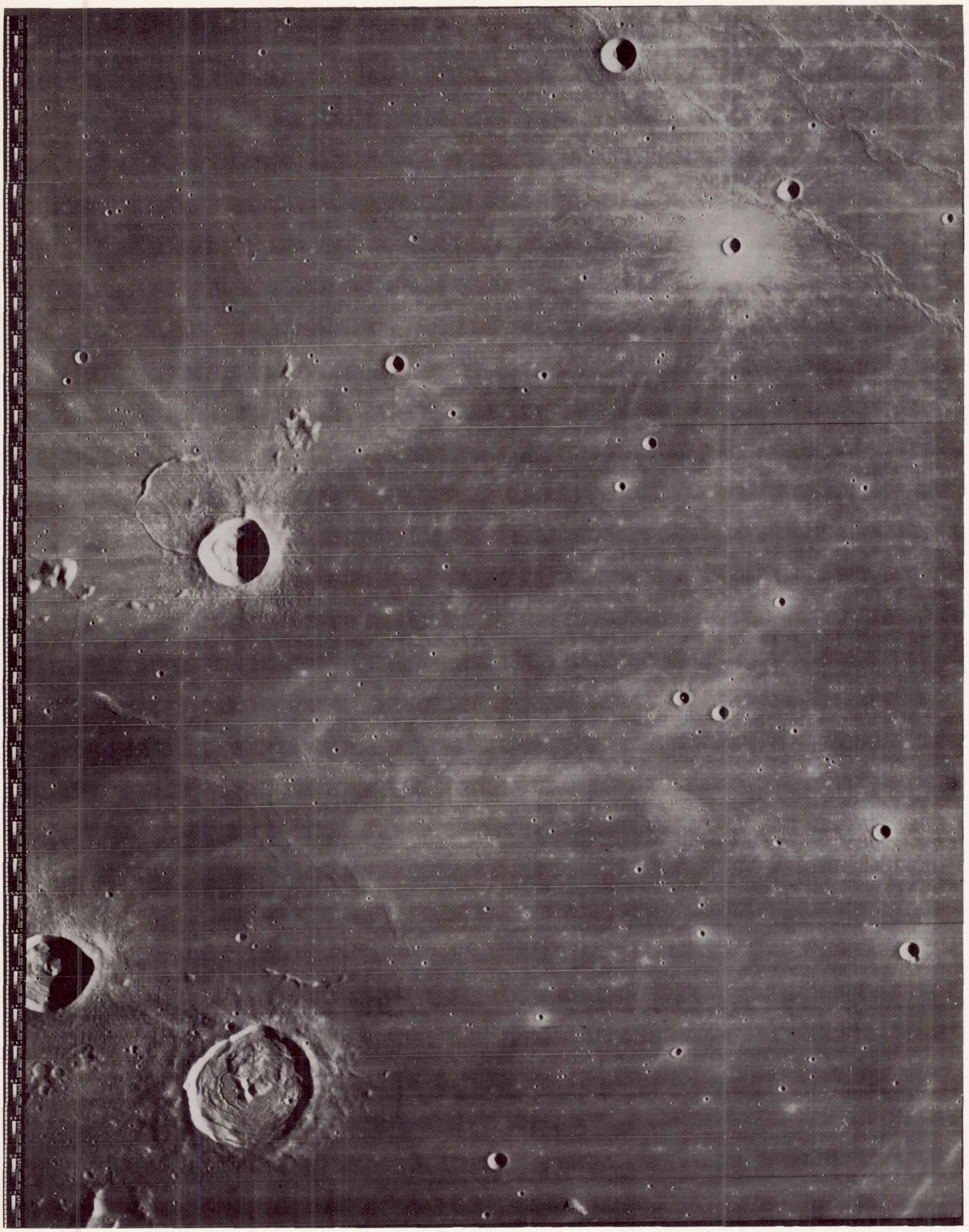


PHOTO NO. IV-170- H1

CENTER COORDINATES ..... LONG –59.60
LAT. 41.77
NORTH DEVIATION (DEG.) ..... 339.57
SUN ANGLE ..... 70.2
SPACE CRAFT ALTITUDE (KM) ..... 2870.64

N

1 CENTIMETER ≈ 12 KILOMETERS

BRIGGS ..... J14
LICHTENBERG .... K7
NAUMANN ..... E1

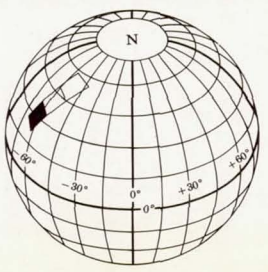
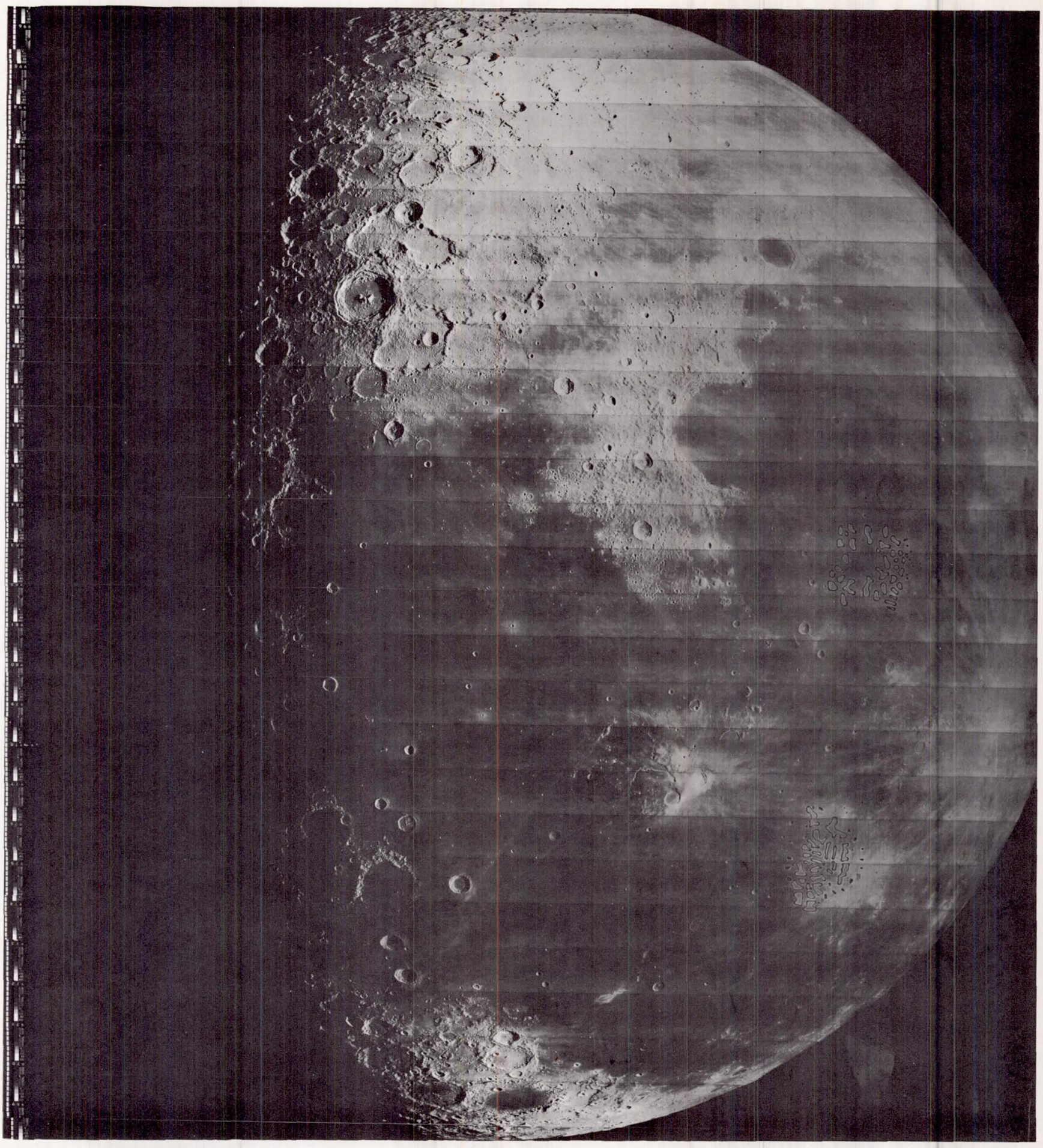
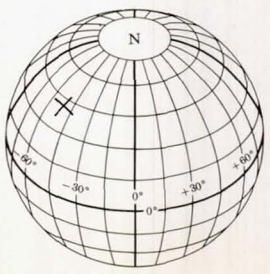



PLATE 64

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15






MARE IMBRIUM ..... L8
OCEANUS PROCELLARUM ....G11
SINUS IRIDUM ..... J6
SINUS RORIS ..... E7

1 CENTIMETER≈ 91 KILOMETERS

N

PHOTO NO. IV-163-M

CENTER COORDINATES ..... LONG.–53.37
LAT. 41.22
NORTH DEVIATION (DEG.) ..... 340.23
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) ..... 2866.74

PLATE 65

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

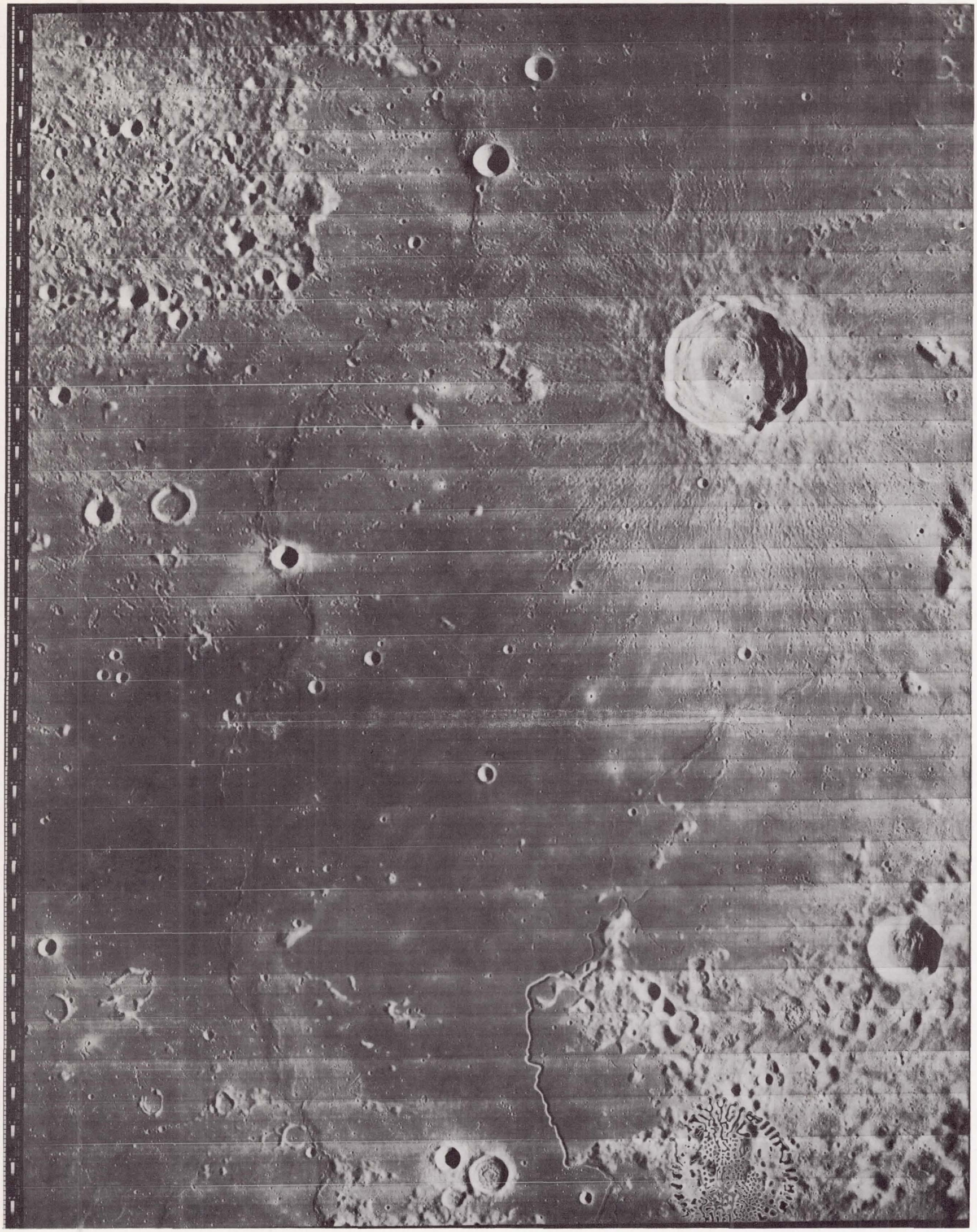


PHOTO NO. IV-163-H3

CENTER COORDINATES ..... LONG.–53.38
LAT. 41.21
NORTH DEVIATION (DEG.) ..... 340.23
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) ..... 2866.72

N

1 CENTIMETER≈12 KILOMETERS

HARPALUS .... C 5

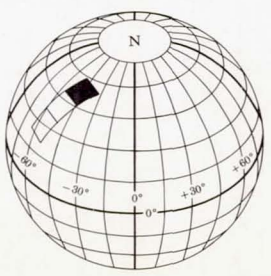
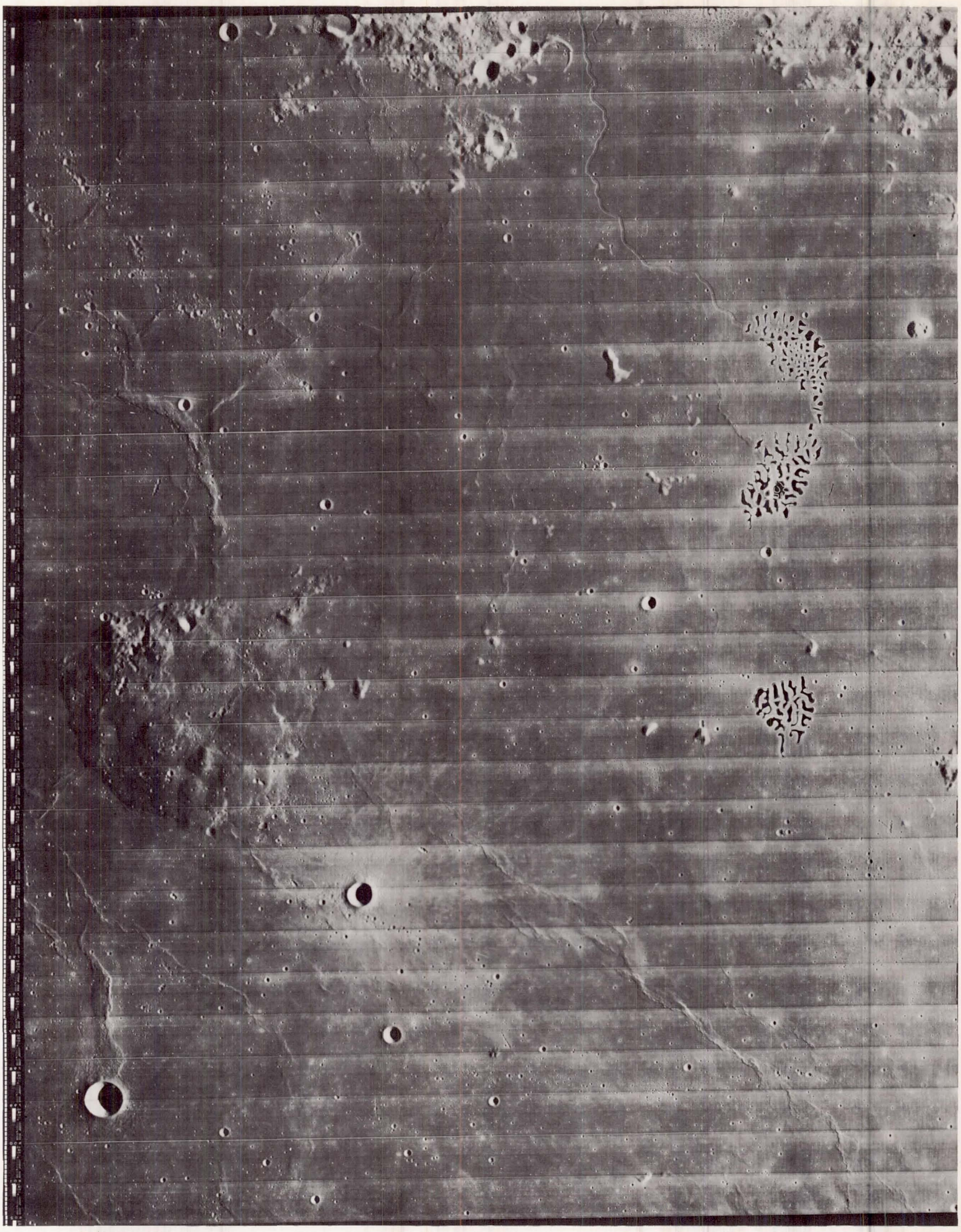
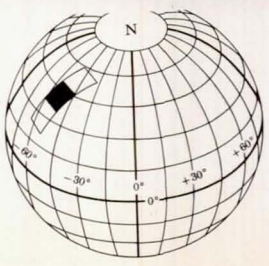



PLATE 66

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






NAUMANN B .... B14
RUMKER ..... C9

1 CENTIMETER≈12 KILOMETERS

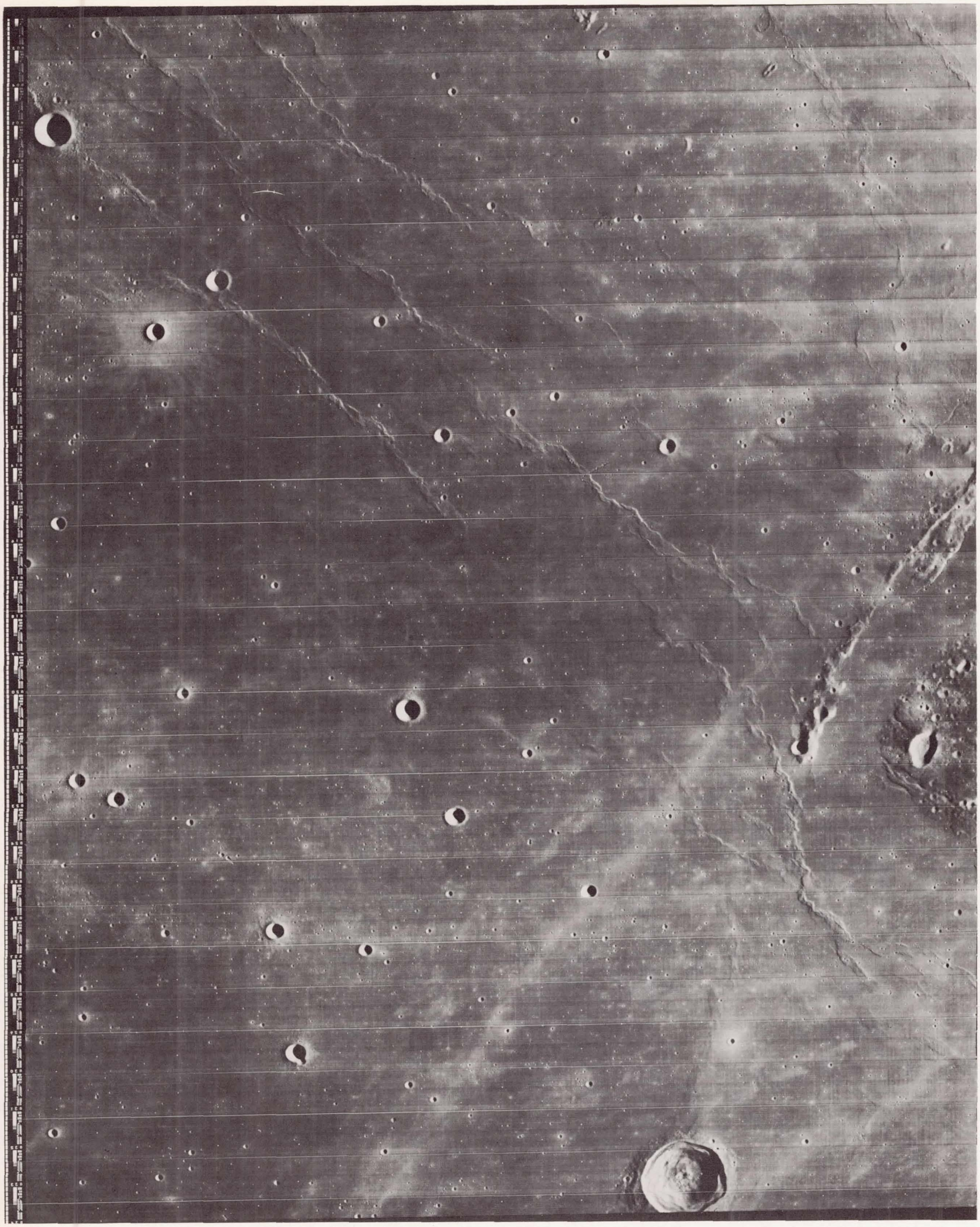



PHOTO NO. IV-163-H2

CENTER COORDINATES ..... LONG.–53.38
LAT. 41.21
NORTH DEVIATION (DEG.) ..... 340.23
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) ..... 2866.72

PLATE 67

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-163-H1

CENTER COORDINATES ..... LONG.–53.38
LAT. 41.21
NORTH DEVIATION (DEG.) ..... 340.23
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) ..... 2866.72

N

1 CENTIMETER≈ 12 KILOMETERS

NAUMANN ..... M2
SHIAPARELLI ..... D15

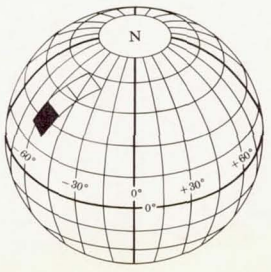
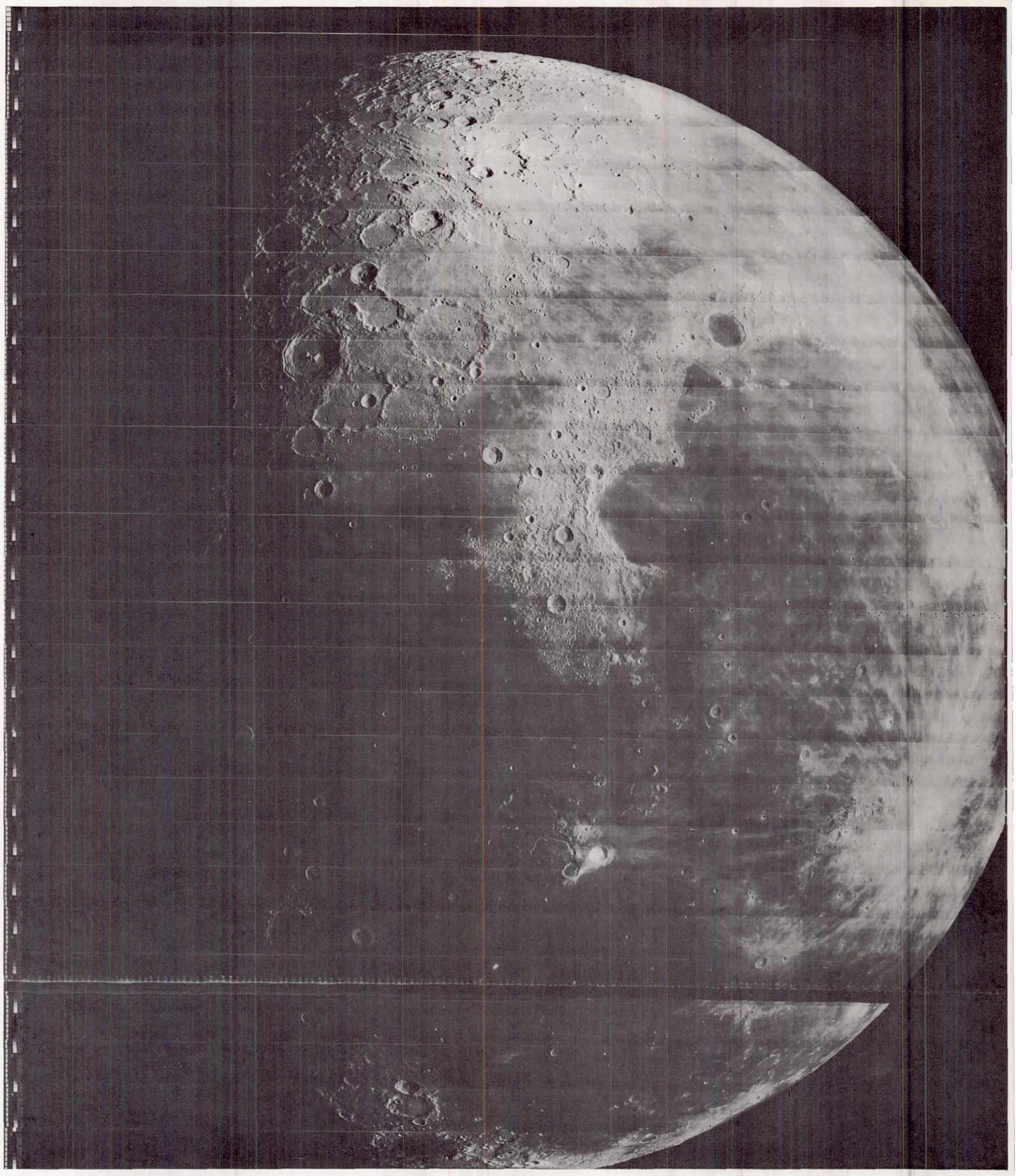
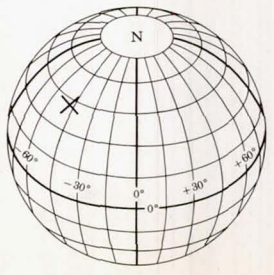



PLATE 68

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... J3
MARE IMBRIUM ..... K7
OCEANUS PROCELLARUM ....F11
SINUS IRIDUM ..... H7
SINUS RORIS ..... E7

1 CENTIMETER≈91 KILOMETERS

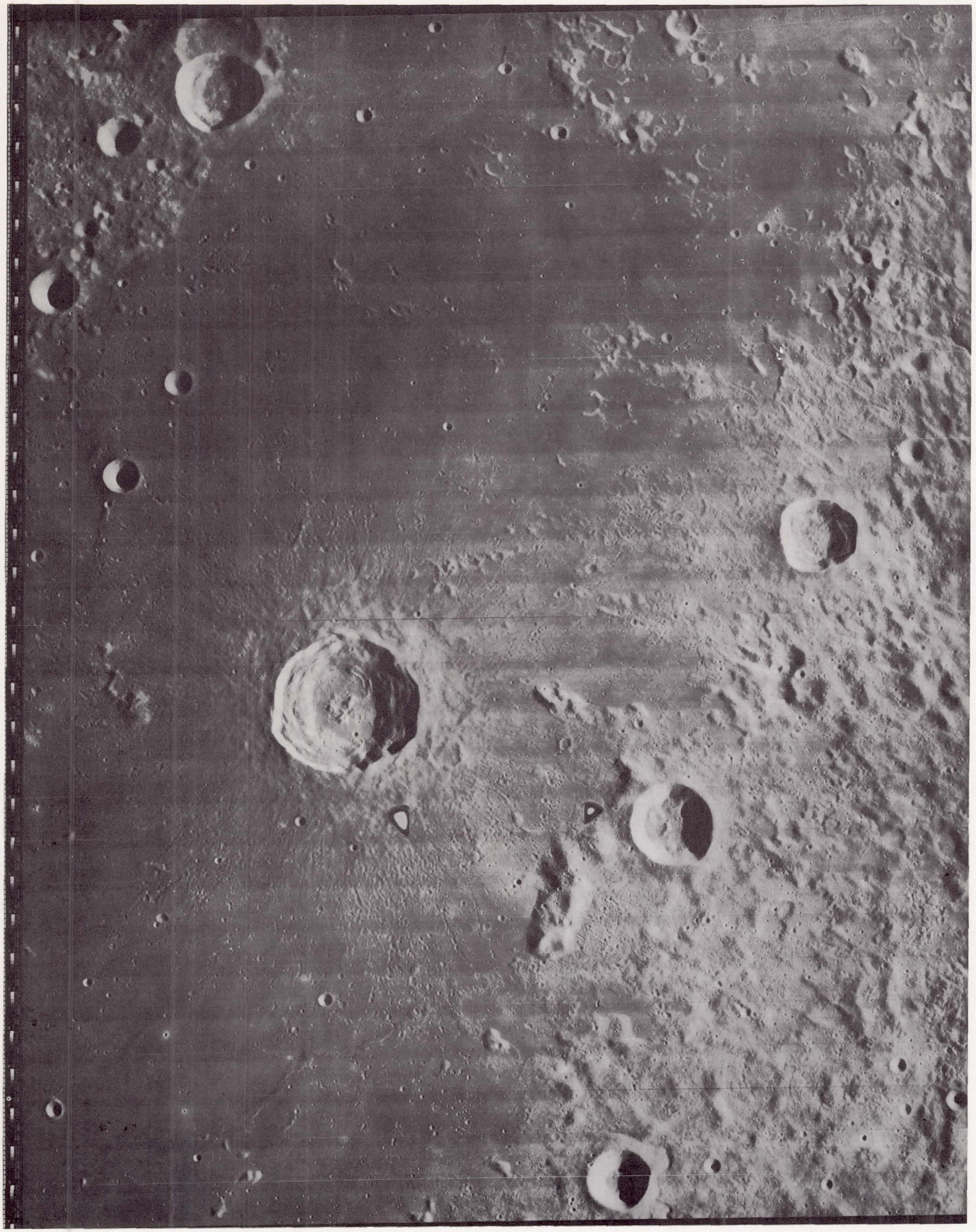



PHOTO NO. IV-158-M

CENTER COORDINATES ..... LONG.–47.65
LAT. 41.99
NORTH DEVIATION (DEG.) ..... 341.49
SUN ANGLE ..... 70.4
SPACECRAFT ALTITUDE (KM) ..... 2865.62

PLATE 69

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-158-H3

CENTER COORDINATES ..... LONG.–47.65
LAT. 41.99
NORTH DEVIATION (DEG.) ..... 341.49
SUN ANGLE ..... 70.4
SPACECRAFT ALTITUDE (KM) ..... 2865.60

N

1 CENTIMETER≈12 KILOMETERS

BOUGUER ..... B7
FOUCAULT ..... D11
HARPALUS ..... H9
HORREBOW ..... K2

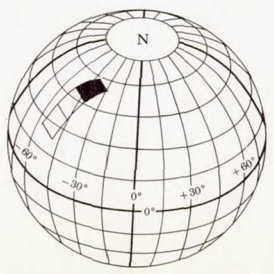
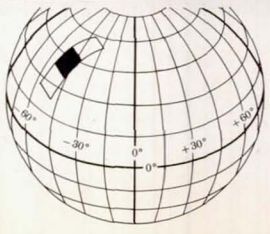



PLATE 70

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






LOUVILLE .. F5
MAIRAN .. K8
SHARP ..... L1

1 CENTIMETER ≈12 KILOMETERS




PHOTO NO. IV-158-H2

CENTER COORDINATES ..... LONG.–47.65
LAT. 41.99
NORTH DEVIATION (DEG.) ..... 341.49
SUN ANGLE ..... 70.4
SPACECRAFT ALTITUDE (KM) ..... 2865.60

PLATE 71

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

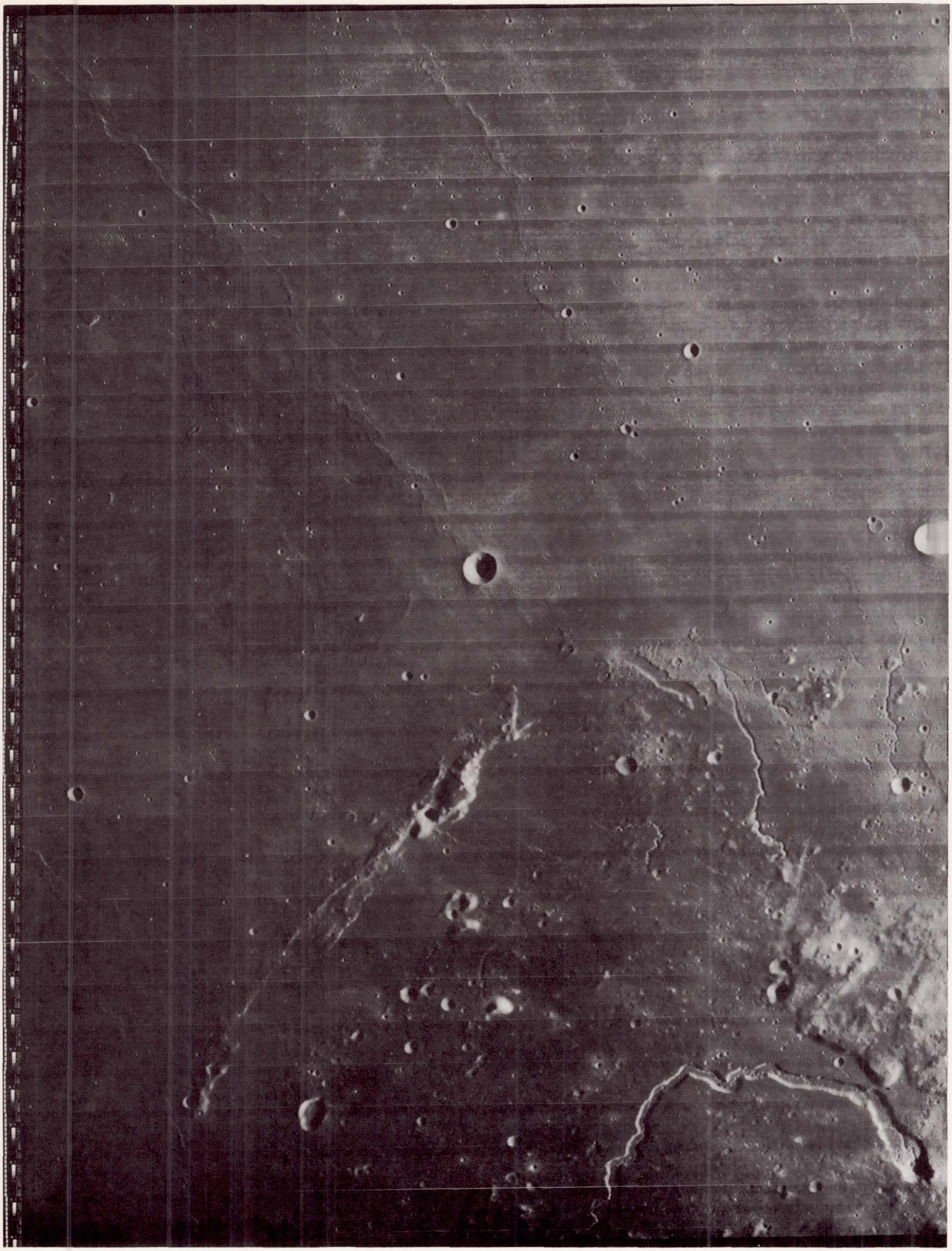


PHOTO NO. IV-158-H1

CENTER COORDINATES ..... LONG.–47.65
LAT. 41.99
NORTH DEVIATION (DEG.) ..... 341.49
SUN ANGLE ..... 70.4
SPACECRAFT ALTITUDE (KM) ..... 2865.60

N

1 CENTIMETER ≈ 12 KILOMETERS

RIMA ARISTARCHUS ..... C11
VALLIS SCHROTERI ..... C14

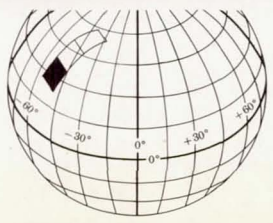
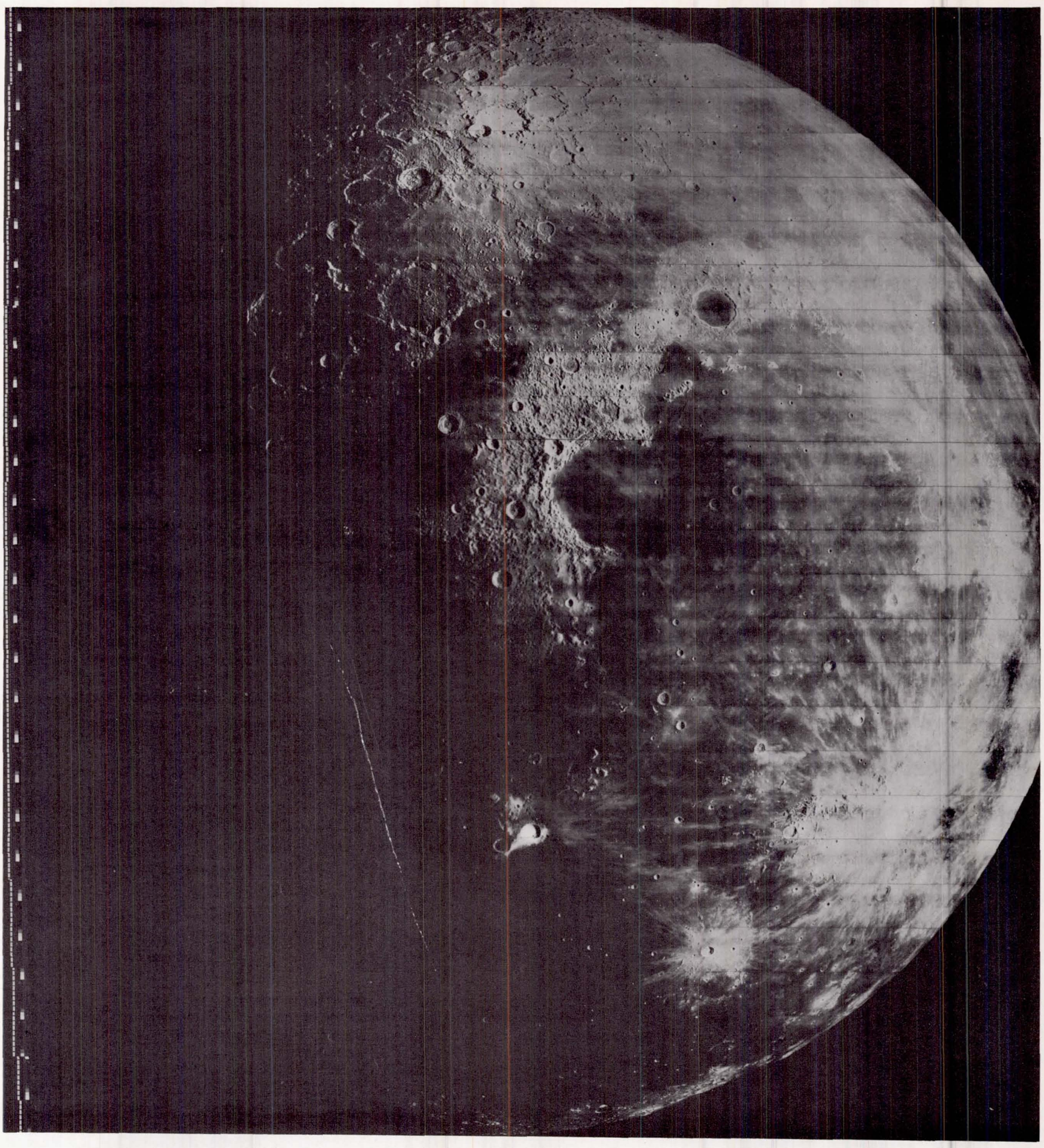
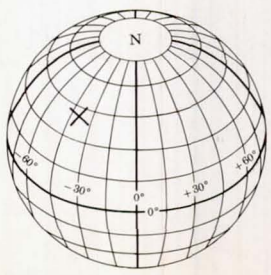



PLATE 72

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... H3
MARE IMBRIUM ..... J7
MARE SERENITATIS .... M5
SINUS IRIDUM ..... H7
SINUS RORIS ..... E7

1 CENTIMETER ≈ 91 KILOMETERS

N

PHOTO NO. IV-151-M

CENTER COORDINATES ..... LONG.–40.20
LAT. 40.88
NORTH DEVIATION (DEG.) ..... 340.45
SUN ANGLE ..... 69.1
SPACECRAFT ALTITUDE (KM) ..... 2865.93

PLATE 73

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-151-H3

CENTER COORDINATES ..... LONG.–40.20
LAT. 40.88
NORTH DEVIATION (DEG.) ..... 340.45
SUN ANGLE ..... 69.1
SPACECRAFT ALTITUDE (KM) ..... 2865.91

1 CENTIMETER≈12 KILOMETERS

BIANCHINI ..... D11
BOUGUER ..... H8
FOUCAULT ..... K11
LA CONDAMINE ..... C4

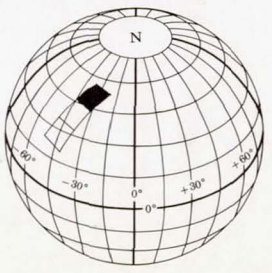
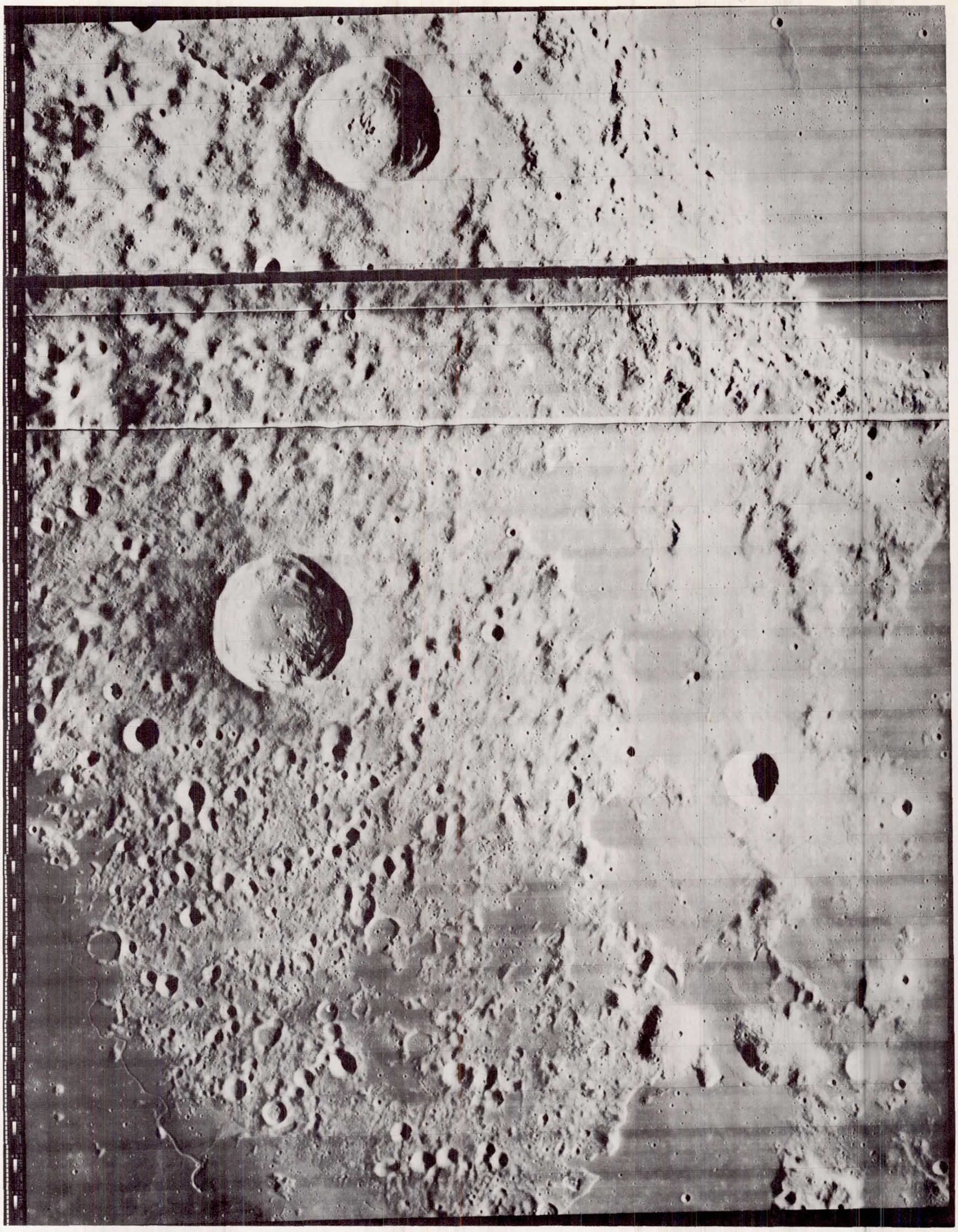
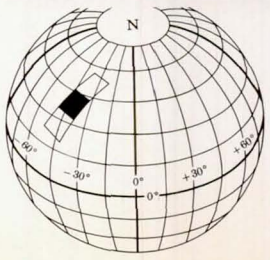



PLATE 74

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MAIRAN .... D8
SHARP ..... E2

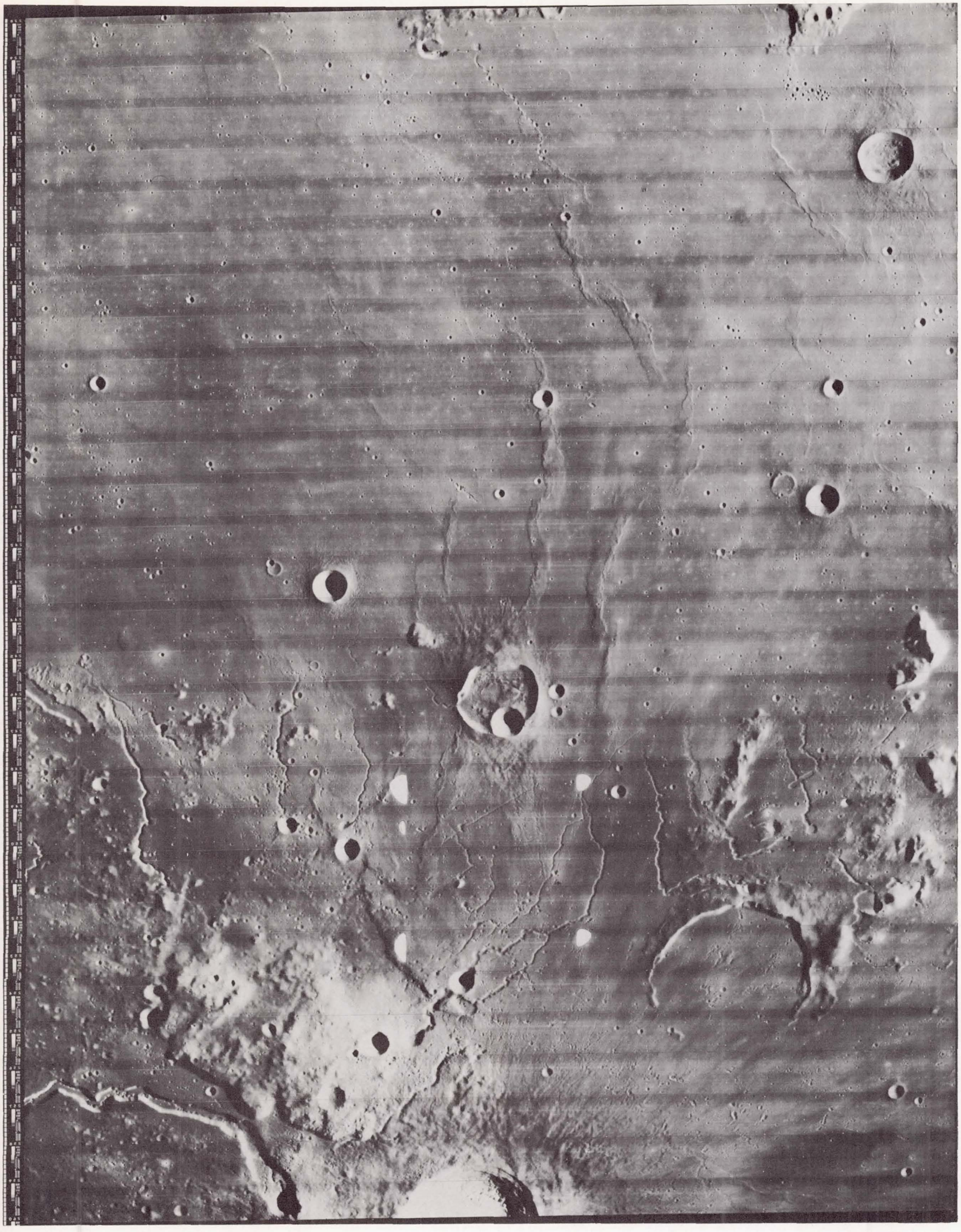
1 CENTIMETER ≈ 12 KILOMETERS

PHOTO NO. IV-151- H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG.–40.20 |
| | LAT. 40.88 |
| NORTH DEVIATION (DEG.) ..... | 340.45 |
| SUN ANGLE ..... | 69.1 |
| SPACECRAFT ALTITUDE (KM) ..... | 2865.91 |

PLATE 75

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-151-H1

CENTER COORDINATES ..... LONG.–40.20
LAT. 40.88
NORTH DEVIATION (DEG.) ..... 340.45
SUN ANGLE ..... 69.1
SPACECRAFT ALTITUDE (KM) ..... 2865.91

1 CENTIMETER ≈ 12 KILOMETERS

ANGSTRÖM ..... B7
ARISTARCHUS .... G15
GRUITHUISEN .... A2
KREIGER ..... F9
PRINZ ..... C13
WOLLASTON ..... H8

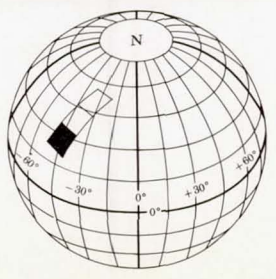
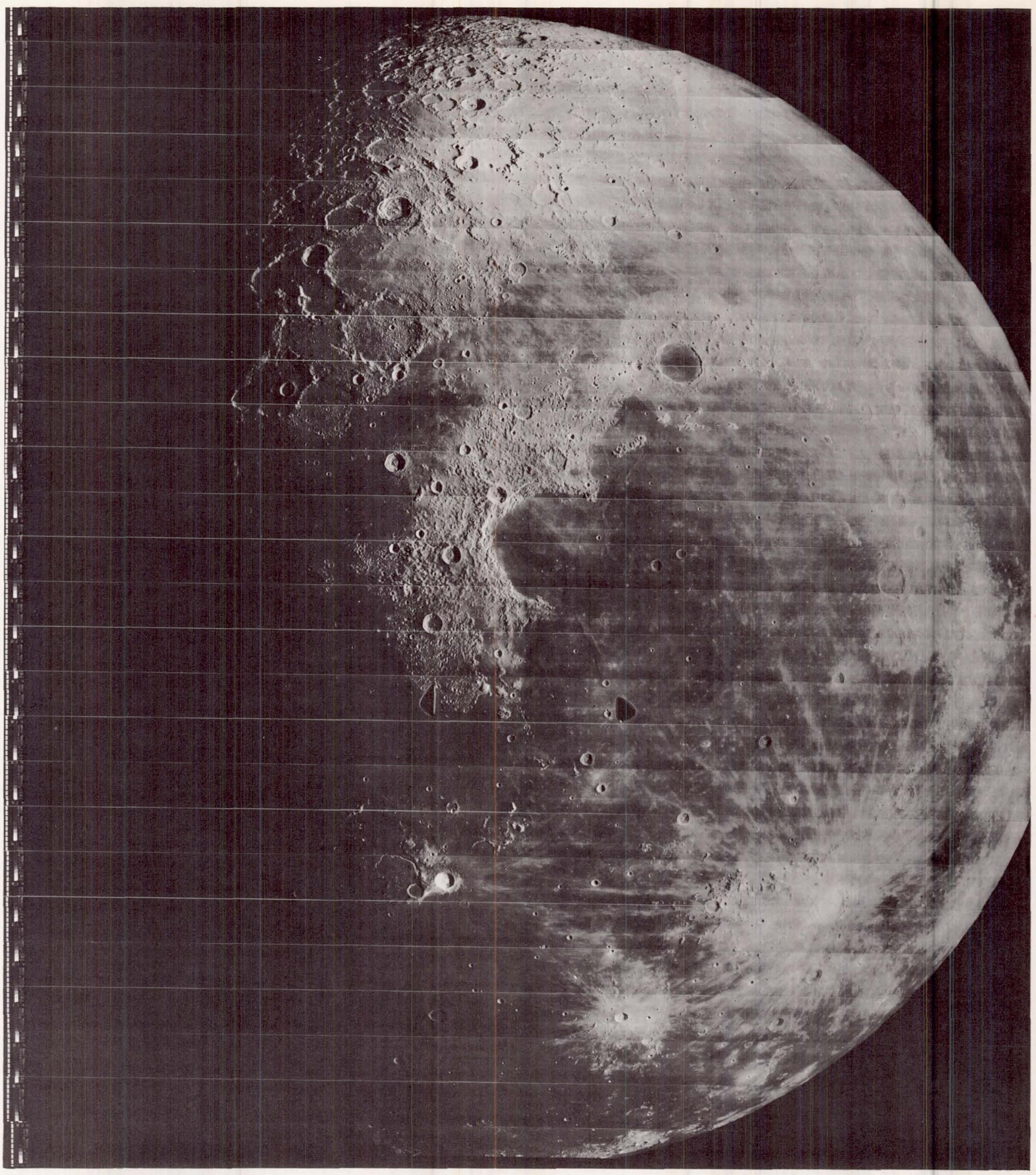
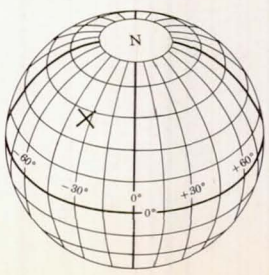



PLATE 76

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... G5
MARE IMBRIUM ..... J8
MARE SERENITATIS ..... M6
OCEANUS PROCELLARUM .... E12
SINUS IRIDUM ..... G7
SINUS RORIS ..... D7

1 CENTIMETER≈ 91 KILOMETERS




PHOTO NO. IV-145-M

CENTER COORDINATES ..... LONG.–33.70
LAT. 42.34
NORTH DEVIATION (DEG.) ..... 340.01
SUN ANGLE ..... 69.3
SPACECRAFT ALTITUDE (KM) ..... 2868.14

PLATE 77

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-145-H3

CENTER COORDINATES ..... LONG.–33.70
LAT. 42.34
NORTH DEVIATION (DEG.) ..... 340.01
SUN ANGLE ..... 69.3
SPACECRAFT ALTITUDE (KM) ..... 2868.12

N

1 CENTIMETER ≈12 KILOMETERS

BIANCHINI ..... J15
BOUGUER ..... M11
LA CONDAMINE .... G8
MAUPERTUIS ..... D12

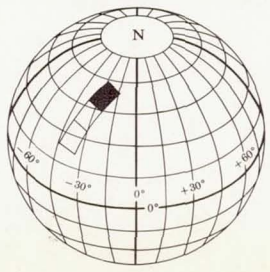
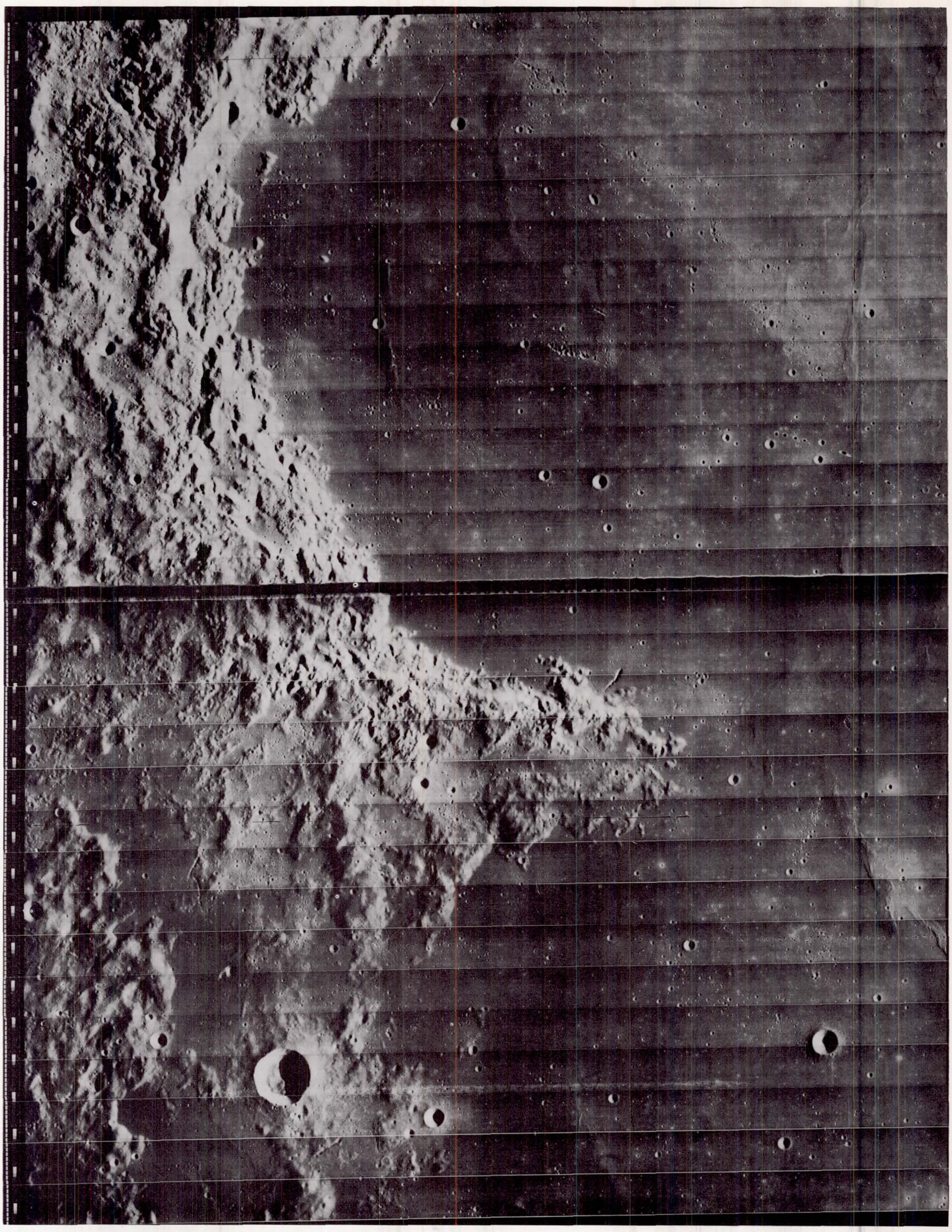
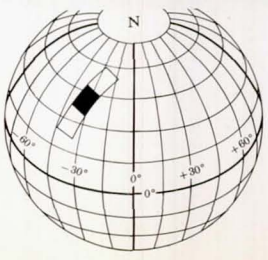



PLATE 78

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MAIRAN A ..... D14
SINUS IRIDUM ..... F3

1 CENTIMETER ≈ 12 KILOMETERS

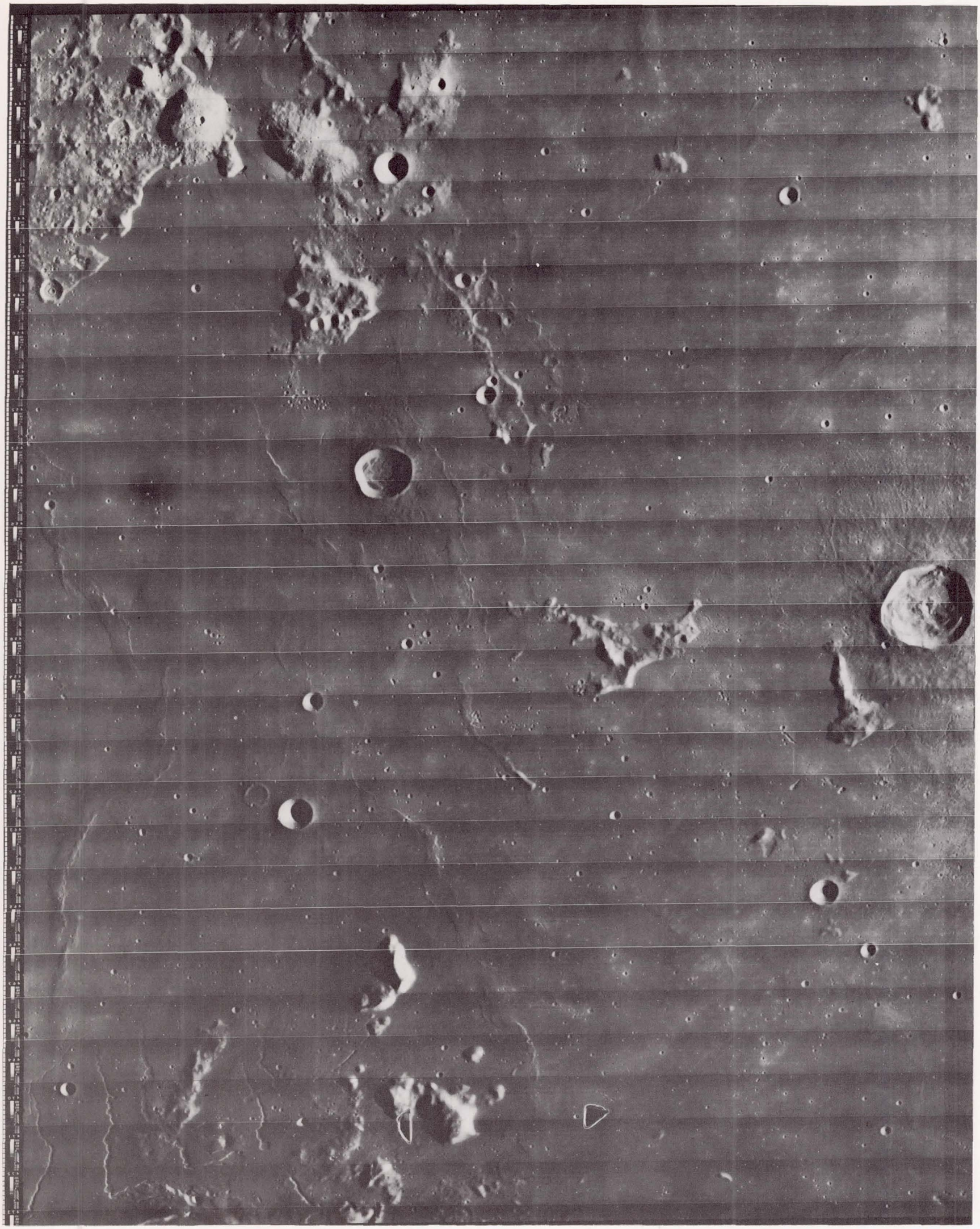
N

PHOTO NO. IV-145-H2

CENTER COORDINATES ..... LONG.–33.70
LAT. 42.34
NORTH DEVIATION (DEG.) ..... 340.01
SUN ANGLE ..... 69.3
SPACECRAFT ALTITUDE (KM) ..... 2868.12

PLATE 79

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-145-H1

CENTER COORDINATES ..... LONG.–33.70
LAT. 42.34
NORTH DEVIATION (DEG.) ..... 340.01
SUN ANGLE ..... 69.3
SPACECRAFT ALTITUDE (KM) ..... 2868.12

N

1 CENTIMETER ≈ 12 KILOMETERS

ANGSTROM ..... J10
DELISLE ..... A8
GRUITHUISEN ..... H6
MONTES HARBINGER .. H14

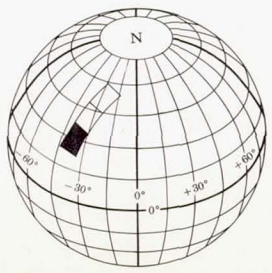
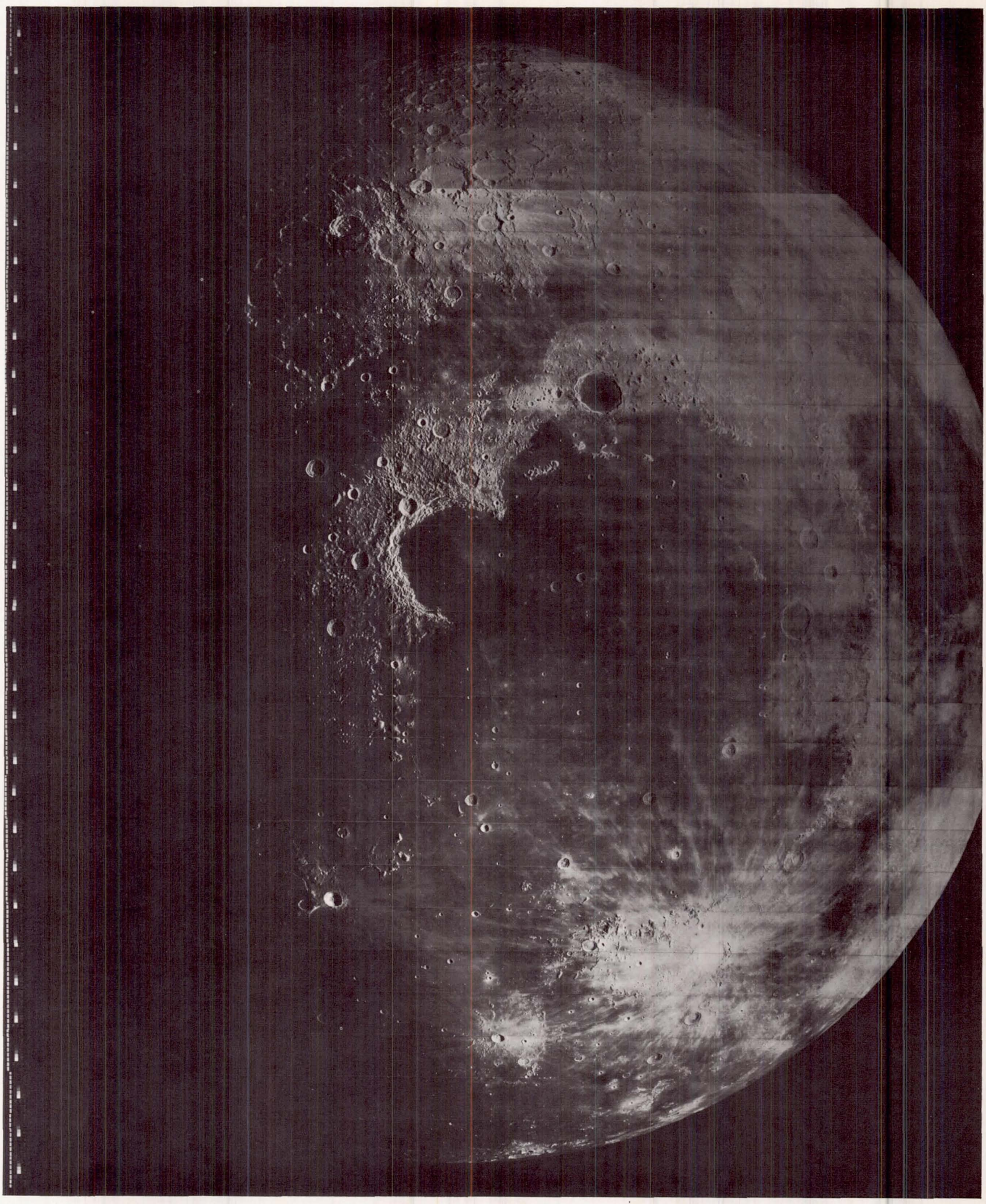
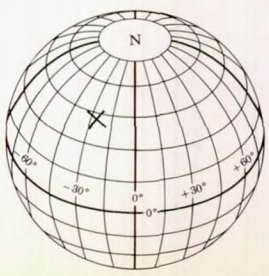



PLATE 80

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... G5
MARE IMBRIUM ..... H9
MARE SERENITATIS .. M7
SINUS IRIDUM ..... F8

1 CENTIMETER≈91 KILOMETERS

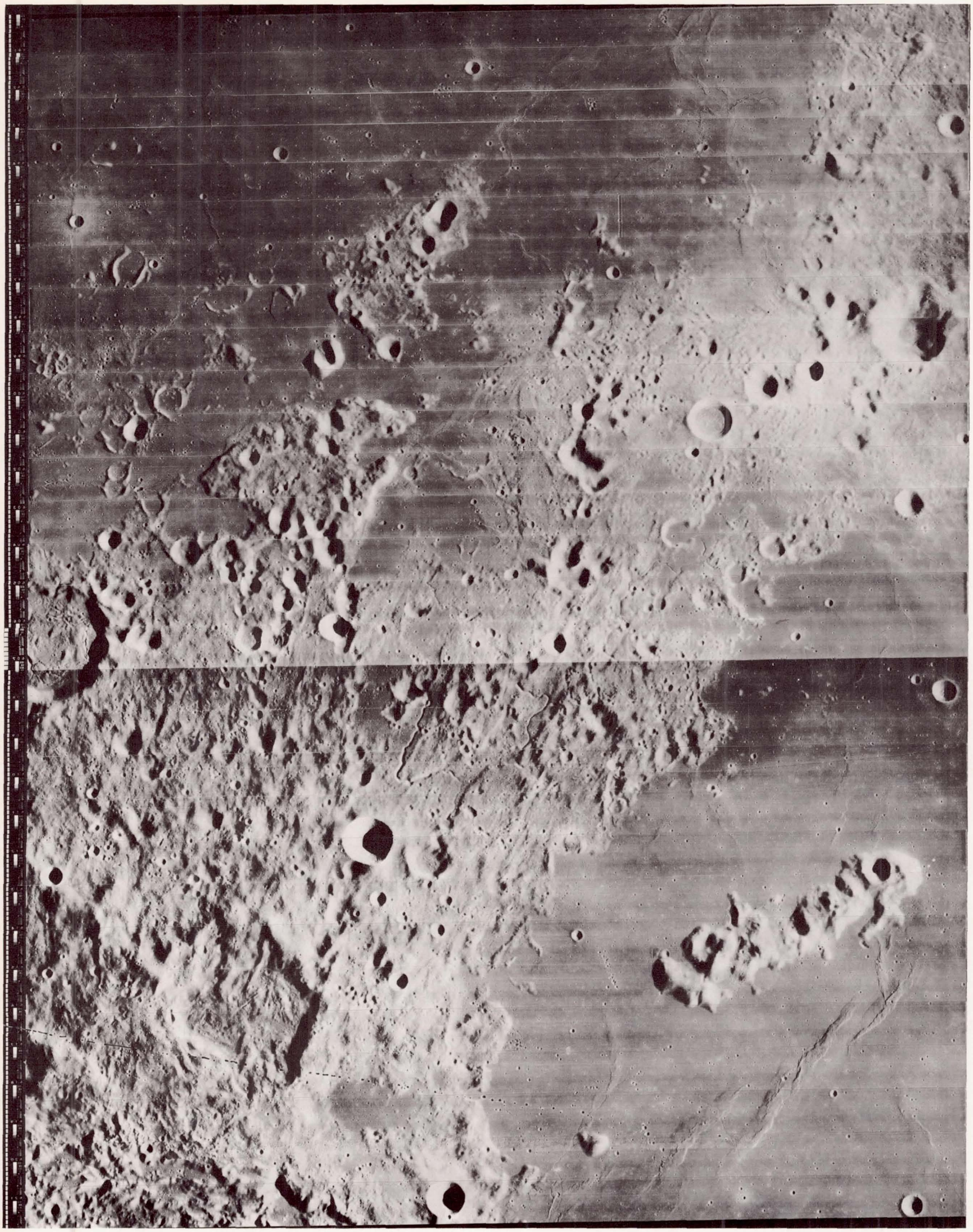



PHOTO NO. IV-139-M

CENTER COORDINATES ..... LONG.–28.24
LAT. 42.17
NORTH DEVIATION (DEG.) ..... 342.05
SUN ANGLE ..... 69.8
SPACECRAFT ALTITUDE (KM) ..... 2872.45

PLATE 81

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-139-H3

CENTER COORDINATES ..... LONG.–28.25
LAT. 42.16
NORTH DEVIATION (DEG.) ..... 342.05
SUN ANGLE ..... 69.8
SPACECRAFT ALTITUDE (KM) ..... 2872.43

N

1 CENTIMETER ≈ 12 KILOMETERS

LA CONDAMINE .... M8
MAUPERTUIS ..... K13
MONTES RECTI .... C12

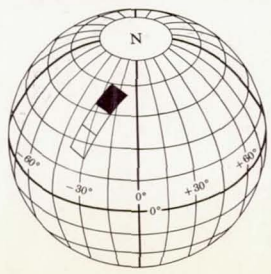
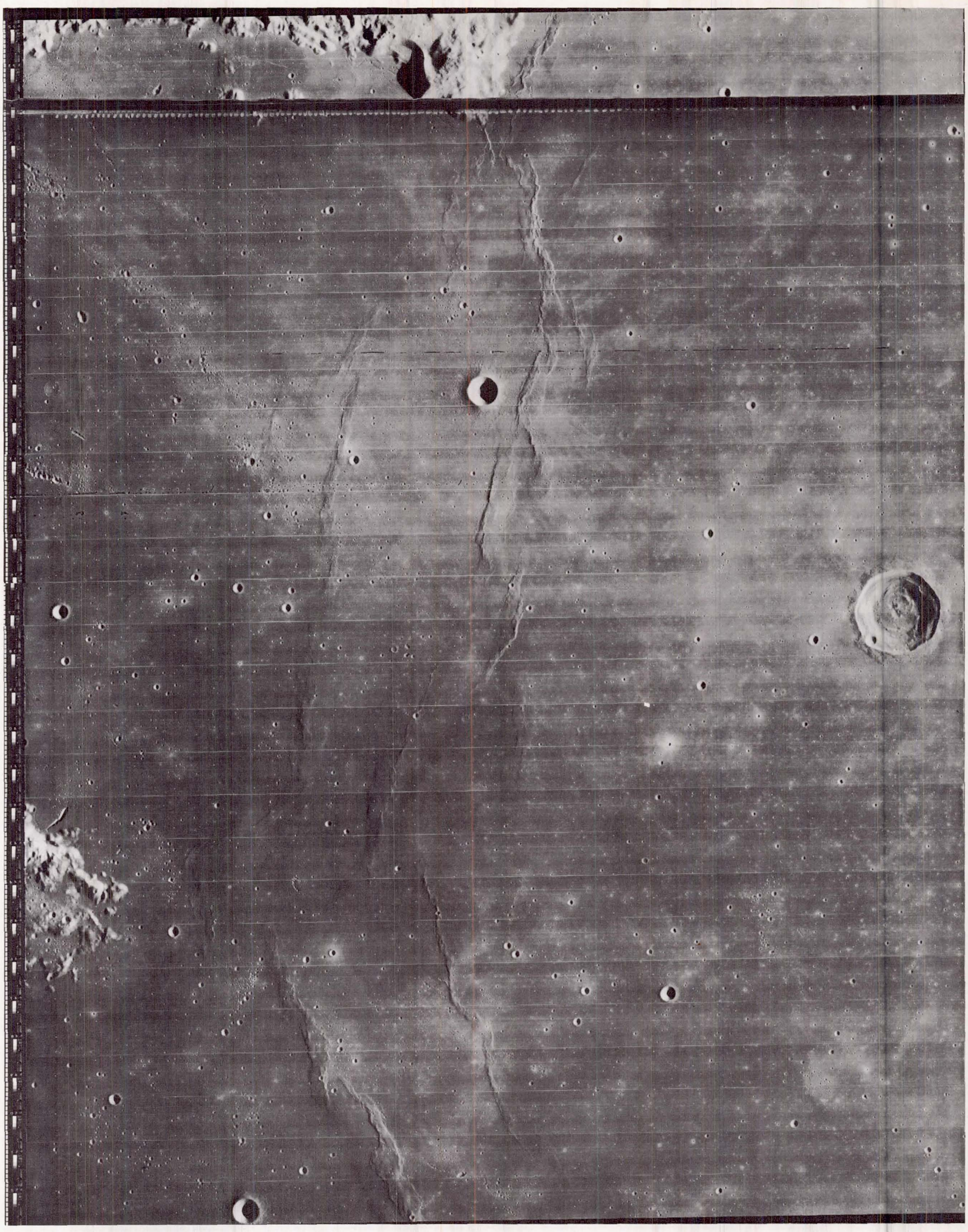
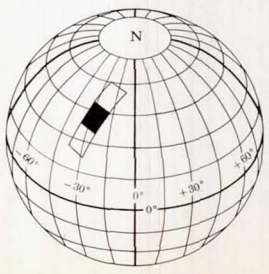



PLATE 82

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HELICON ..... M8
PR. HERACLIDES ..... A12
PR. LAPLACE ..... G2

1 CENTIMETER ≈12 KILOMETERS




PHOTO NO. IV-139-H2

CENTER COORDINATES ..... LONG.–28.25
LAT. 42.16
NORTH DEVIATION (DEG.) ..... 342.05
SUN ANGLE ..... 69.8
SPACECRAFT ALTITUDE (KM) ..... 2872.43

PLATE 83

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

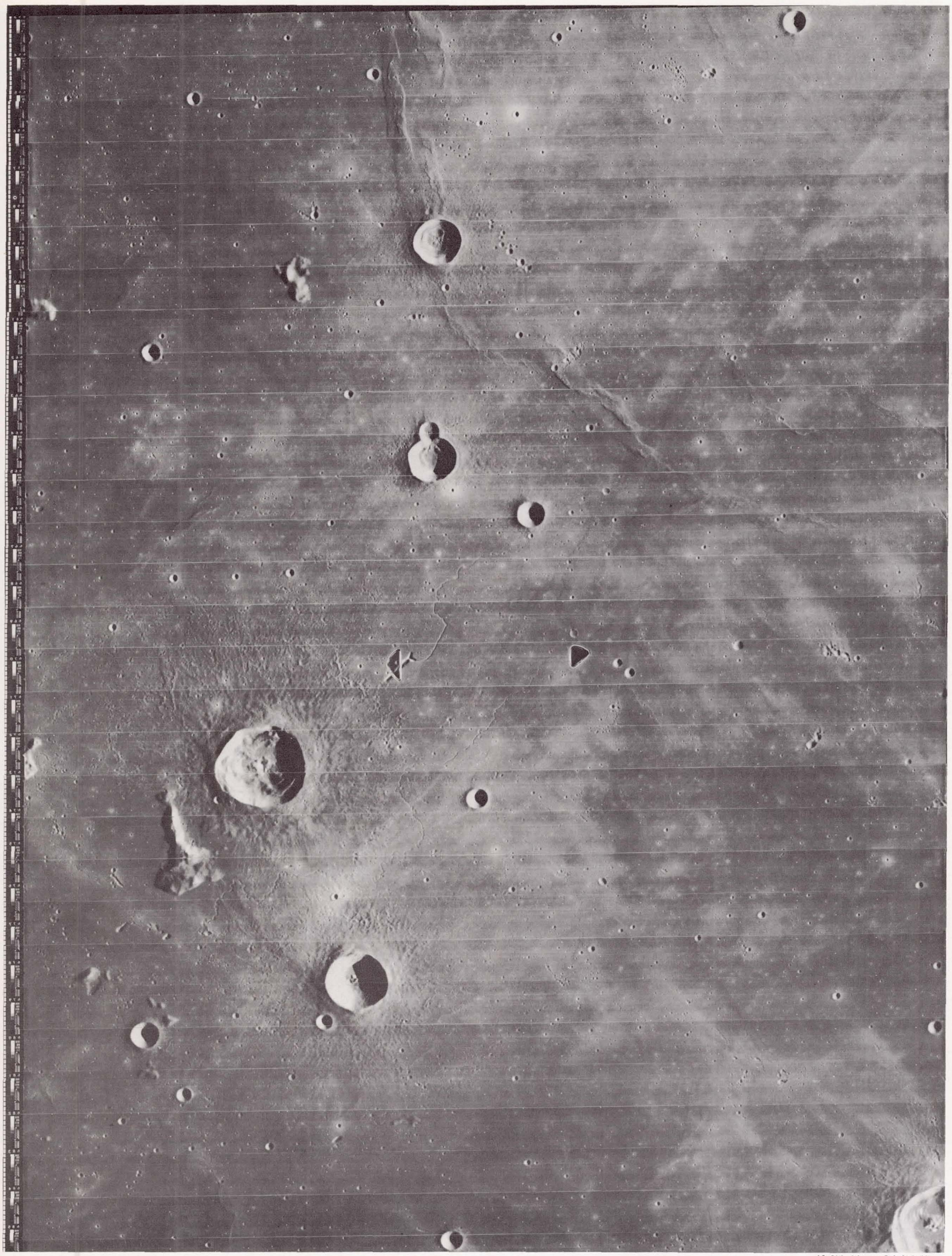


PHOTO NO. IV-139-H1

CENTER COORDINATES ..... LONG.–28.25
LAT. 42.16
NORTH DEVIATION (DEG.) ..... 342.05
SUN ANGLE ..... 69.8
SPACECRAFT ALTITUDE (KM) ..... 2872.43

N

1 CENTIMETER ≈ 12 KILOMETERS

C. HERSCHEL ..... G3
DELISLE ..... J10
DIOPHANTUS .... H13
HEIS ..... G6

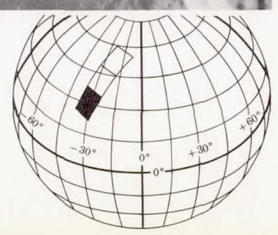
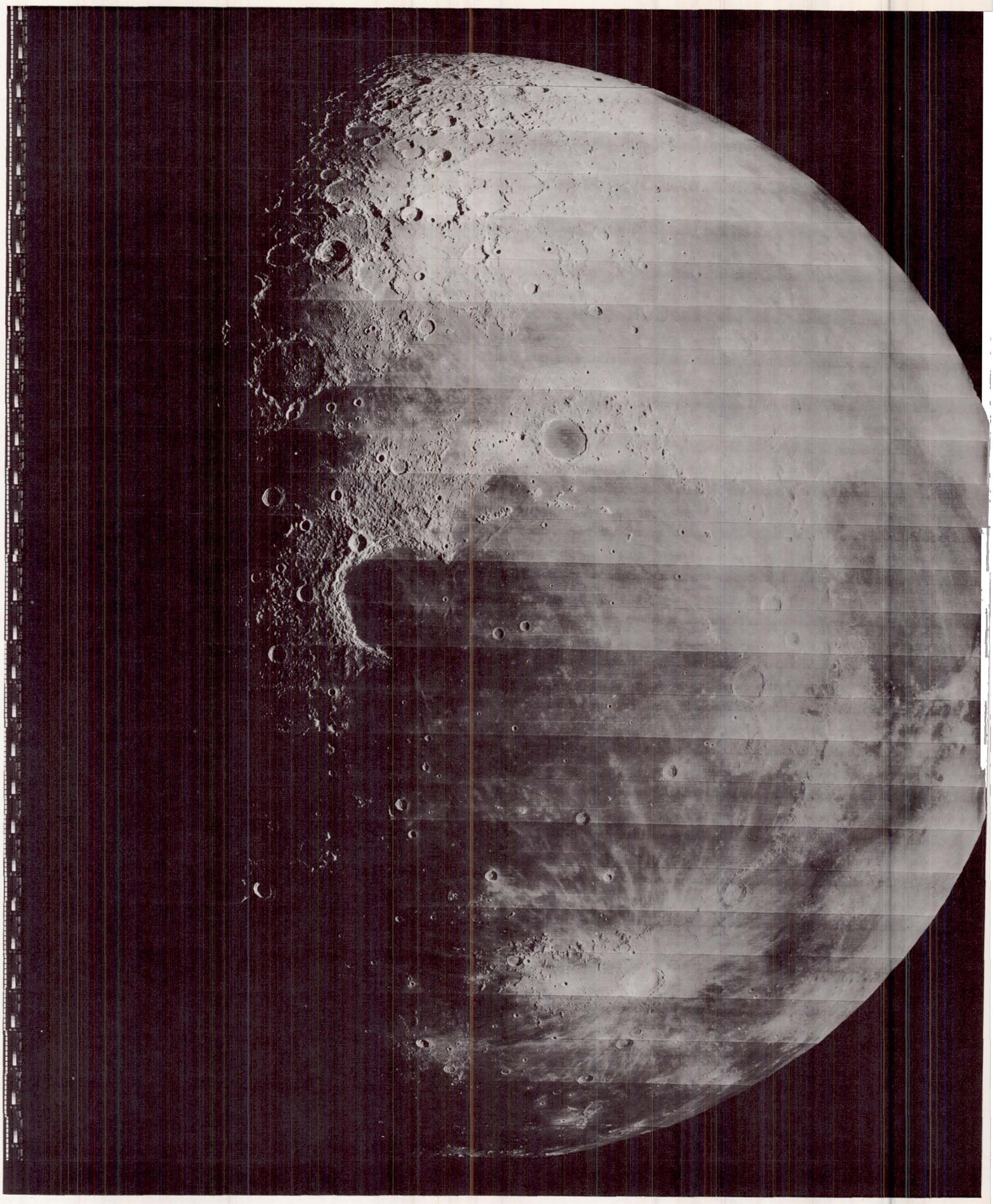
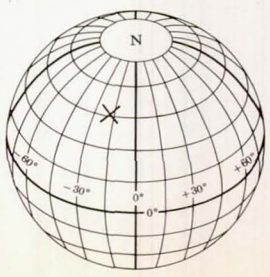



PLATE 84






MARE FRIGORIS ..... H5
MARE IMBRIUM ..... G10
MARE SERENITATIS .... M8
SINUS AESTUUM ..... K12
SINUS IRIDUM ..... E8
SINUS RORIS ..... C7

1 CENTIMETER ≈91 KILOMETERS

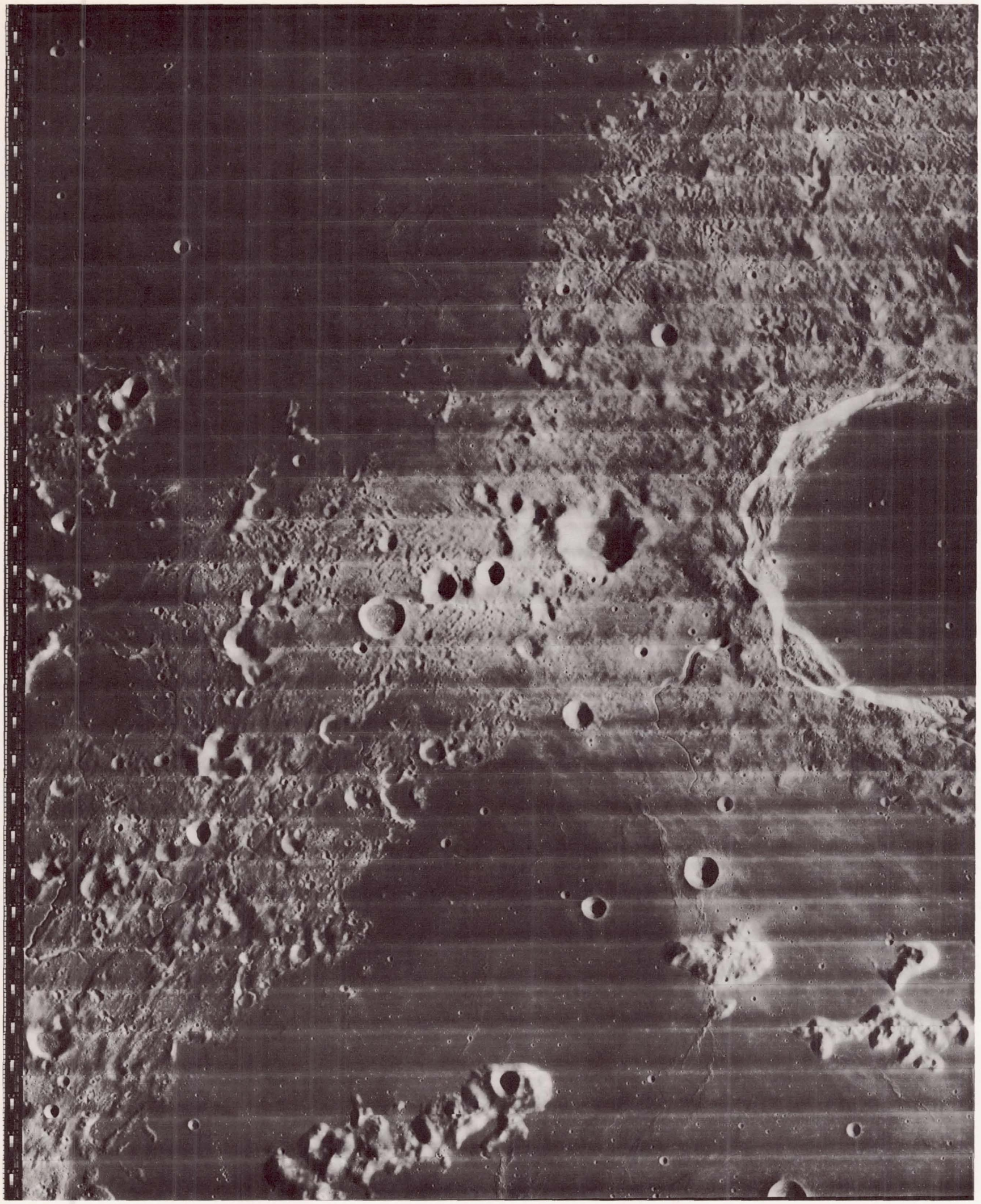



PHOTO NO. IV-134-M

CENTER COORDINATES ..... LONG.–18.14
LAT. 46.31
NORTH DEVIATION (DEG.) ..... 339.70
SUN ANGLE ..... 68.6
SPACECRAFT ALTITUDE (KM) ..... 2878.53

PLATE 85

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-134-H3

CENTER COORDINATES ..... LONG. –18.14
LAT. 46.31
NORTH DEVIATION (DEG.) ..... 339.70
SUN ANGLE ..... 68.6
SPACECRAFT ALTITUDE (KM) ..... 2878.51

N

1 CENTIMETER ≈ 12 KILOMETERS

PLATO .... A7

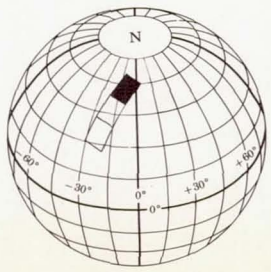
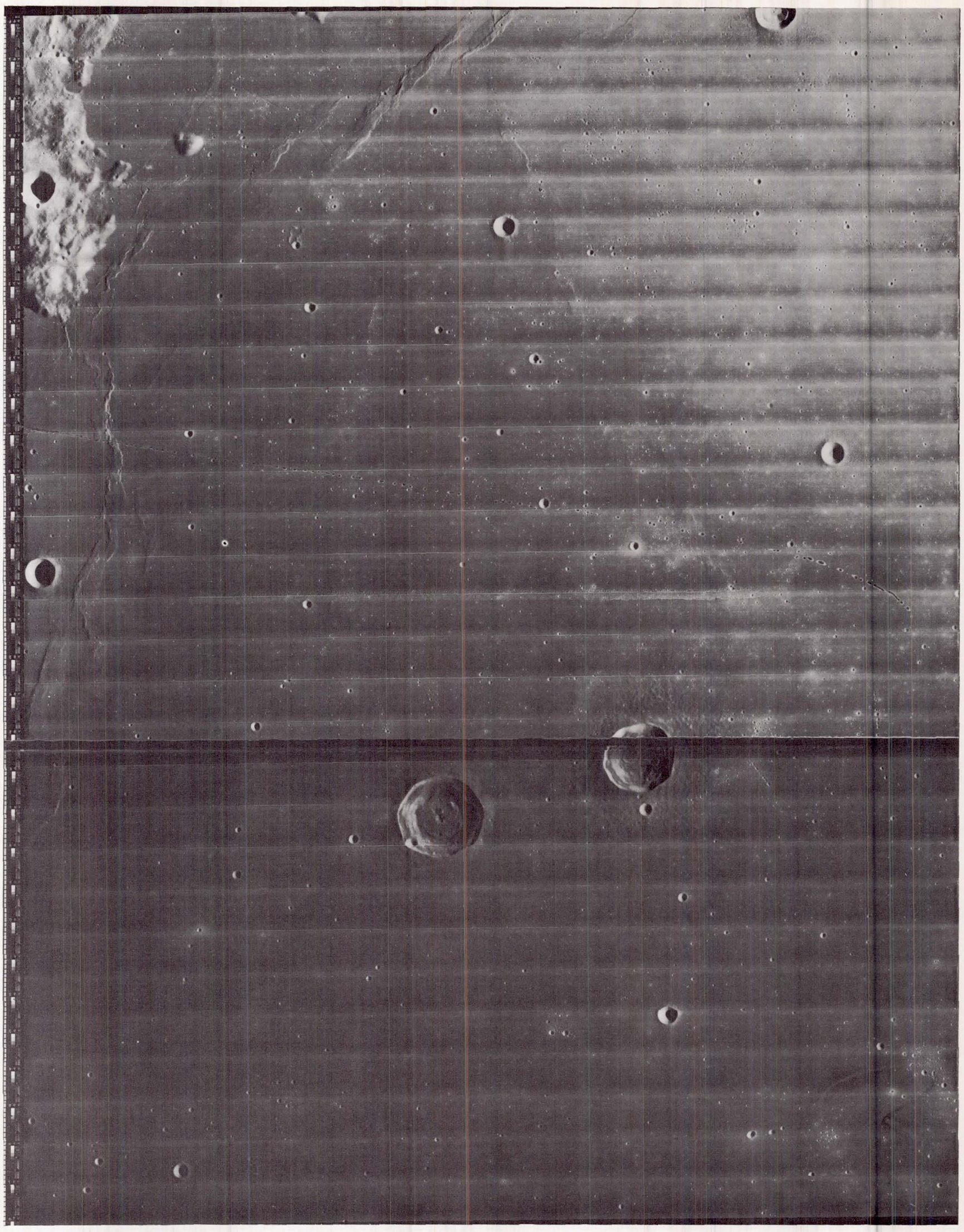
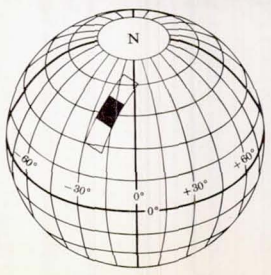



PLATE 86

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HELICON ..... F11
LA VERRIER .... H10

1 CENTIMETER ≈ 12 KILOMETERS




PHOTO NO. IV-134-H2

CENTER COORDINATES ..... LONG. –18.14
LAT. 46.31
NORTH DEVIATION (DEG.) ..... 339.70
SUN ANGLE ..... 68.6
SPACECRAFT ALTITUDE (KM) ..... 2878.51

PLATE 87

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

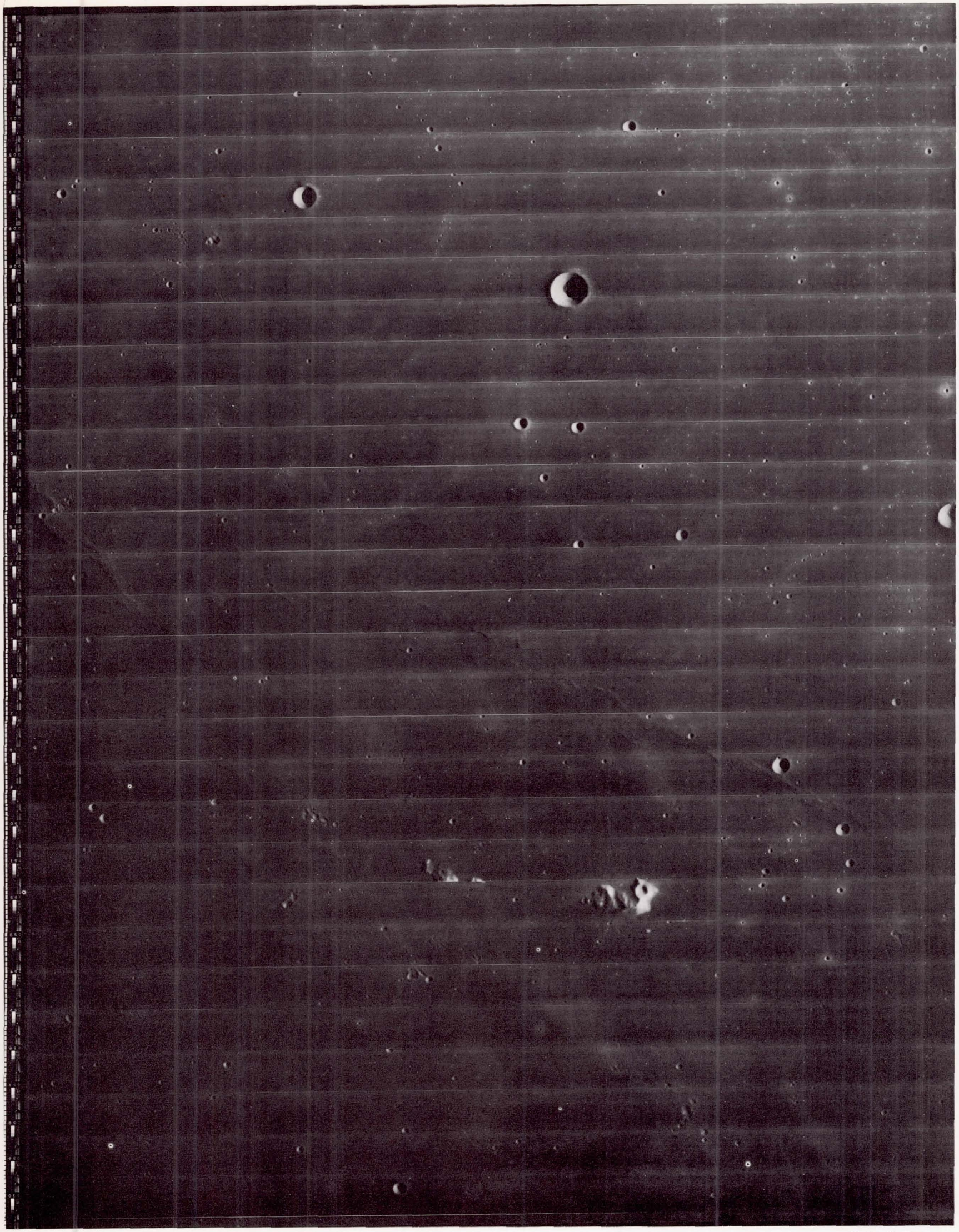


PHOTO NO. IV-134- H1

CENTER COORDINATES ..... LONG. –18.14
LAT. 46.31
NORTH DEVIATION (DEG.) ..... 339.70
SUN ANGLE ..... 68.6
SPACECRAFT ALTITUDE (KM) ..... 2878.51

N

1 CENTIMETER ≈ 12 KILOMETERS

CARLINI ..... E4
LA HIRE .... E12

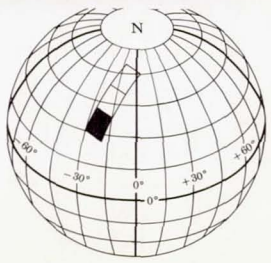
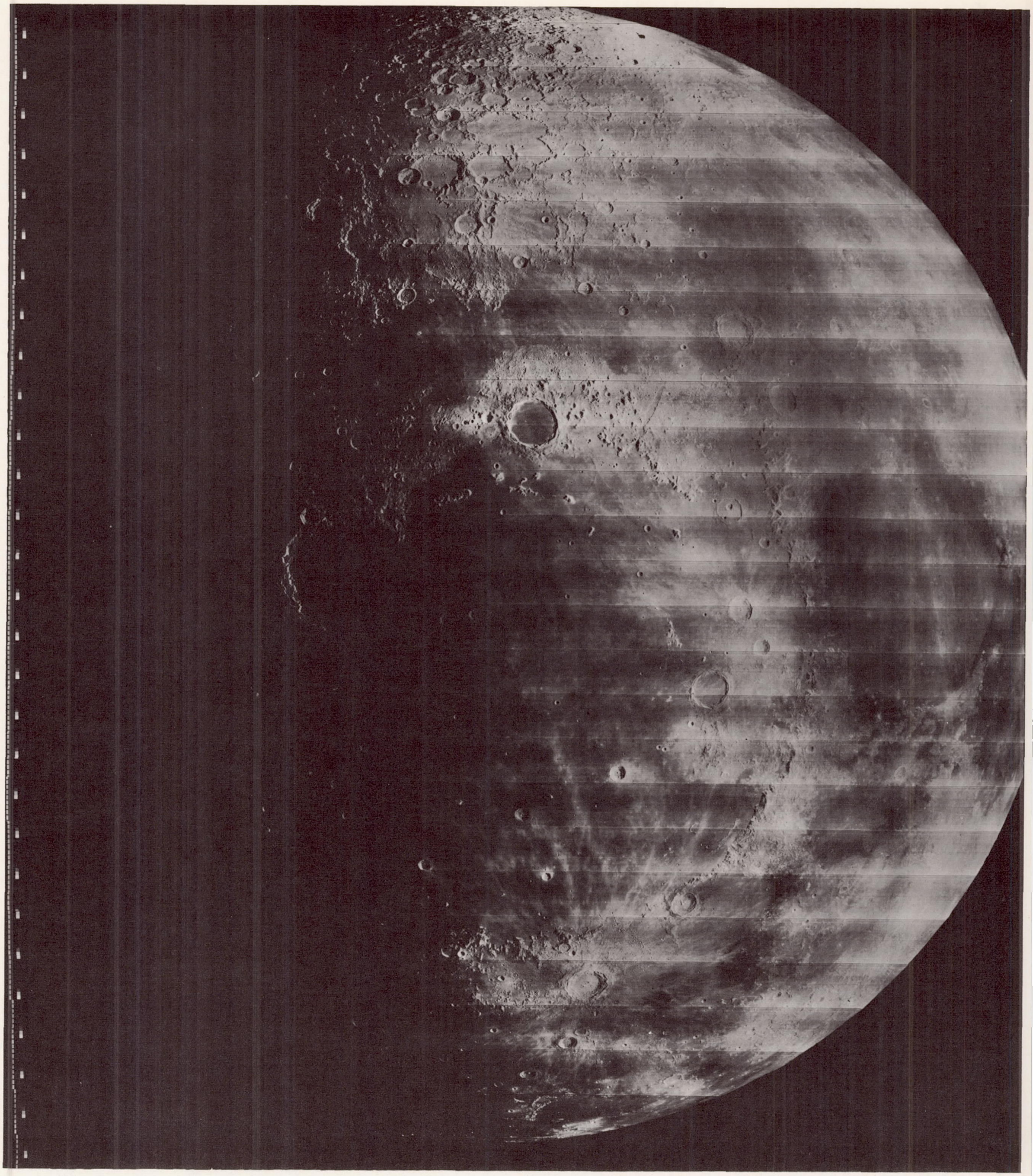
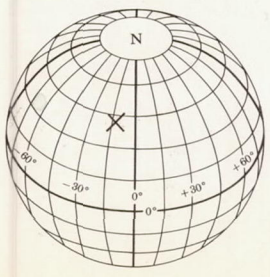



PLATE 88

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM..... L11
MARE FRIGORIS ..... F5
MARE IMBRIUM ..... F9
MARE SERENITATIS ..... J10
MARE TRANQUILLITATIS ..... H12

1 CENTIMETER≈ 91 KILOMETERS




PHOTO NO. IV-127-M

CENTER COORDINATES ..... LONG.–14.29
LAT. 41.21
NORTH DEVIATION (DEG.) ..... 341.33
SUN ANGLE ..... 68.2
SPACECRAFT ALTITUDE (KM) ..... 2886.37

PLATE 89

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

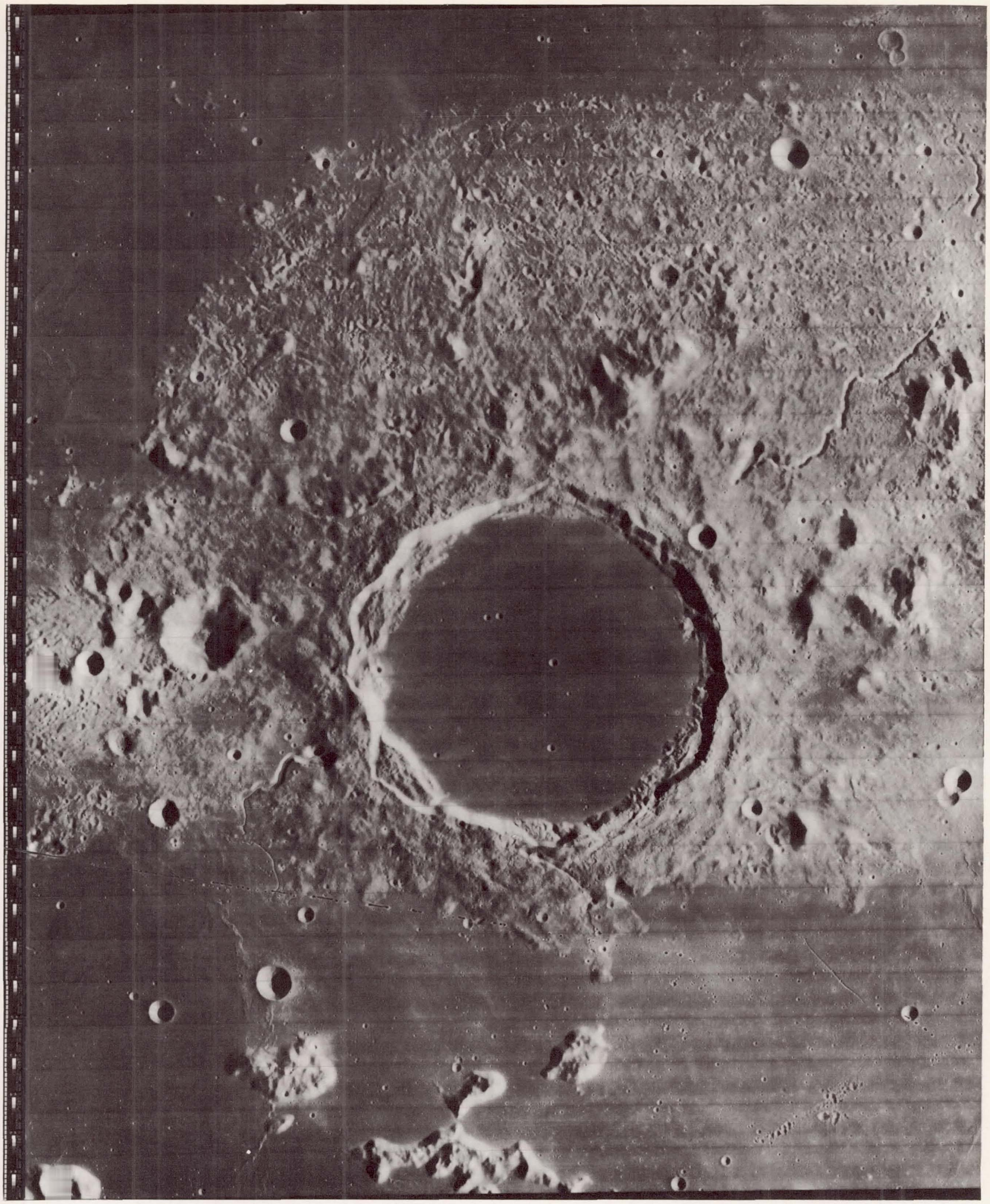


PHOTO NO. IV-127-H3

CENTER COORDINATES ..... LONG.–14.29
LAT. 41.20
NORTH DEVIATION (DEG.) ..... 341.33
SUN ANGLE ..... 68.2
SPACECRAFT ALTITUDE (KM) ..... 2886.35

N

1 CENTIMETER ≈ 12 KILOMETERS

PLATO ..... F9

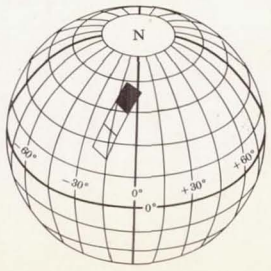
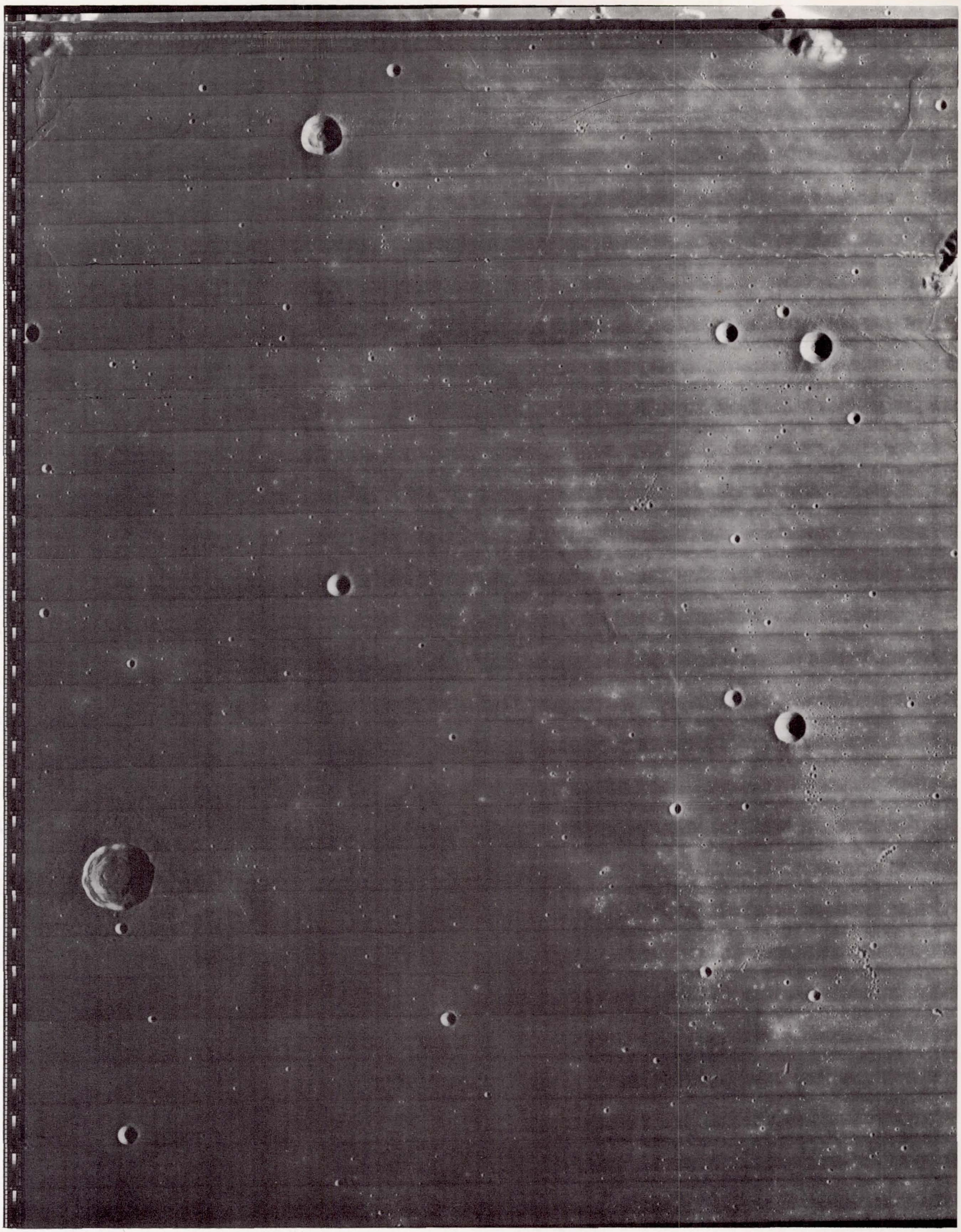
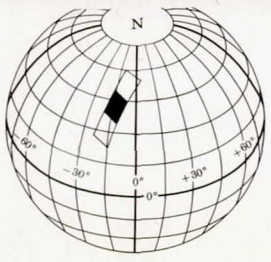



PLATE 90

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






LA VERRIER .... B11

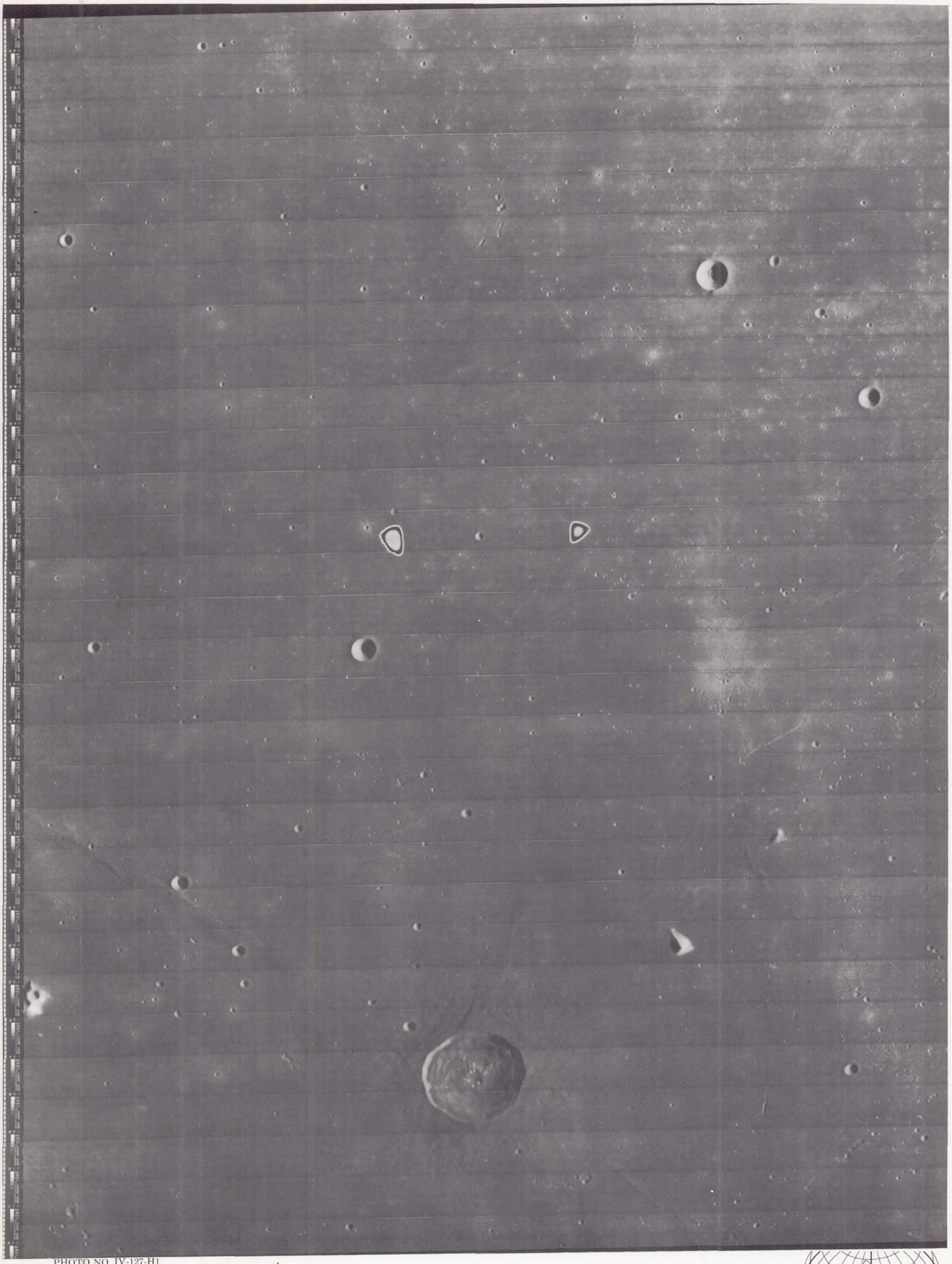
1 CENTIMETER ≈ 12 KILOMETERS

PHOTO NO. IV-127-H2

CENTER COORDINATES ..... LONG.—14.29
LAT. 41.20
NORTH DEVIATION (DEG.) ..... 341.33
SUN ANGLE ..... 68.2
SPACECRAFT ALTITUDE (KM) ..... 2886.35

PLATE 91

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-127-H1

CENTER COORDINATES ..... LONG.–14.29
LAT. 41.20
NORTH DEVIATION (DEG.) ..... 341.33
SUN ANGLE ..... 68.2
SPACECRAFT ALTITUDE (KM) ..... 2886.35

N

1 CENTIMETER ≈ 12 KILOMETERS

LAMBERT ..... G14

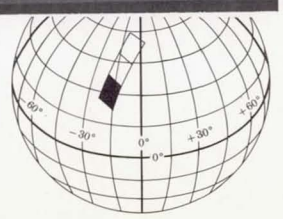
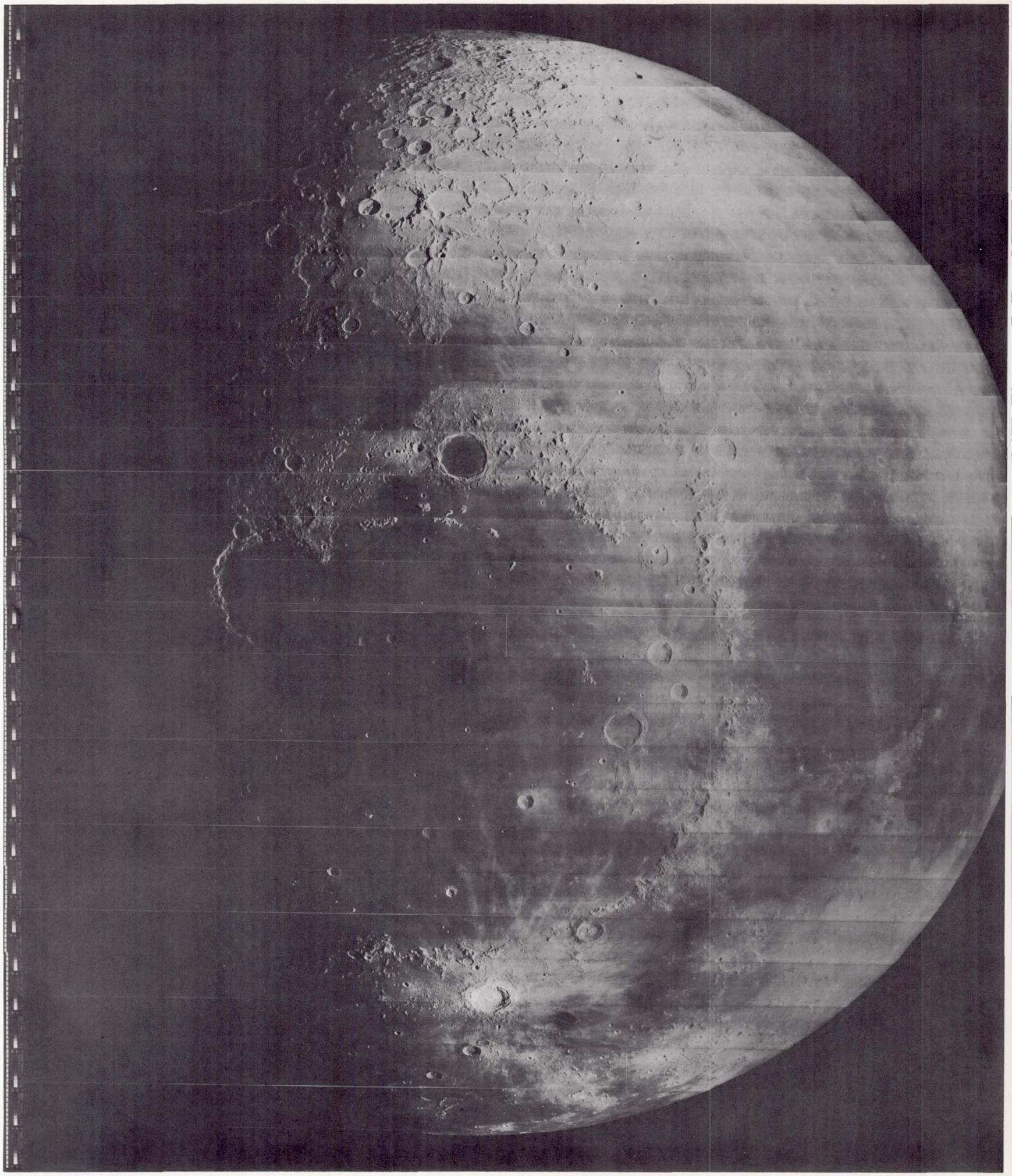
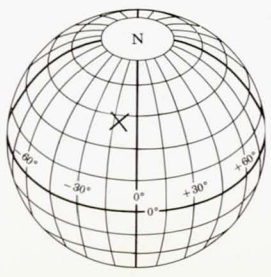



PLATE 92

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE FRIGORIS | G5 |
| MARE IMBRIUM | F9 |
| MARE SERENITATIS | L8 |
| MARE TRANQUILLITATIS | K11 |
| SINUS AESTUUM | H13 |
| SINUS IRIDUM | D8 |

1 CENTIMETER ≈ 92 KILOMETERS




PHOTO NO. IV-122-M

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | −9.24 |
| LAT. | 42.08 |
| NORTH DEVIATION (DEG.) | 342.41 |
| SUN ANGLE | 69.3 |
| SPACECRAFT ALTITUDE (KM) | 2895.04 |

PLATE 93

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-122-H3

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | −9.24 |
| | LAT. | 42.08 |
| NORTH DEVIATION (DEG.) | | 342.41 |
| SUN ANGLE | | 69.3 |
| SPACECRAFT ALTITUDE (KM) | | 2895.02 |

N

1 CENTIMETER ≈12 KILOMETERS

| | |
|---|---|
| MONTES ALPS | G10 |
| PLATO | L10 |
| PROTAGORAS | B1 |
| RIMA PLATO | G8 |

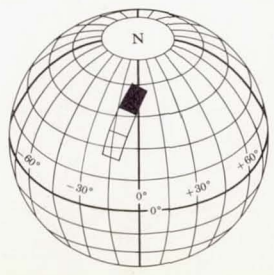
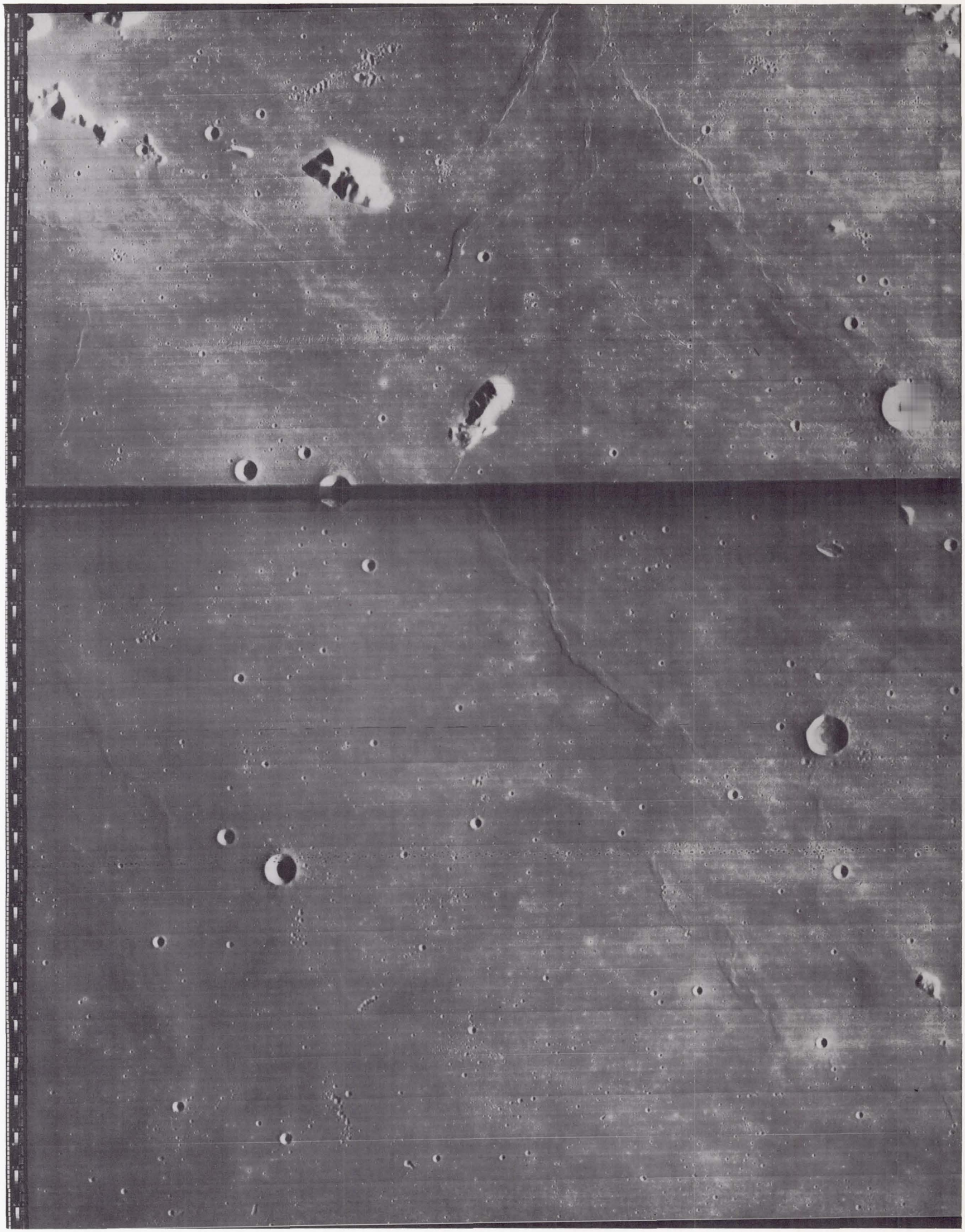
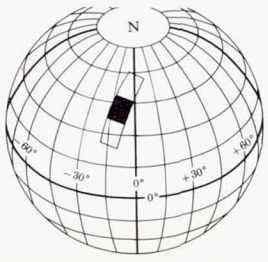



PLATE 94

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






KIRCH ..... L10
MONTES TENERIFFE .... B1
PIAZZI SMYTH ..... M6
PICO ..... E3

1 CENTIMETER ≈ 12 KILOMETERS




PHOTO NO. IV-122-H2

CENTER COORDINATES ..... LONG. −9.24
LAT. 42.08
NORTH DEVIATION (DEG.) ..... 342.41
SUN ANGLE ..... 69.3
SPACECRAFT ALTITUDE (KM) ..... 2895.02

PLATE 95

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

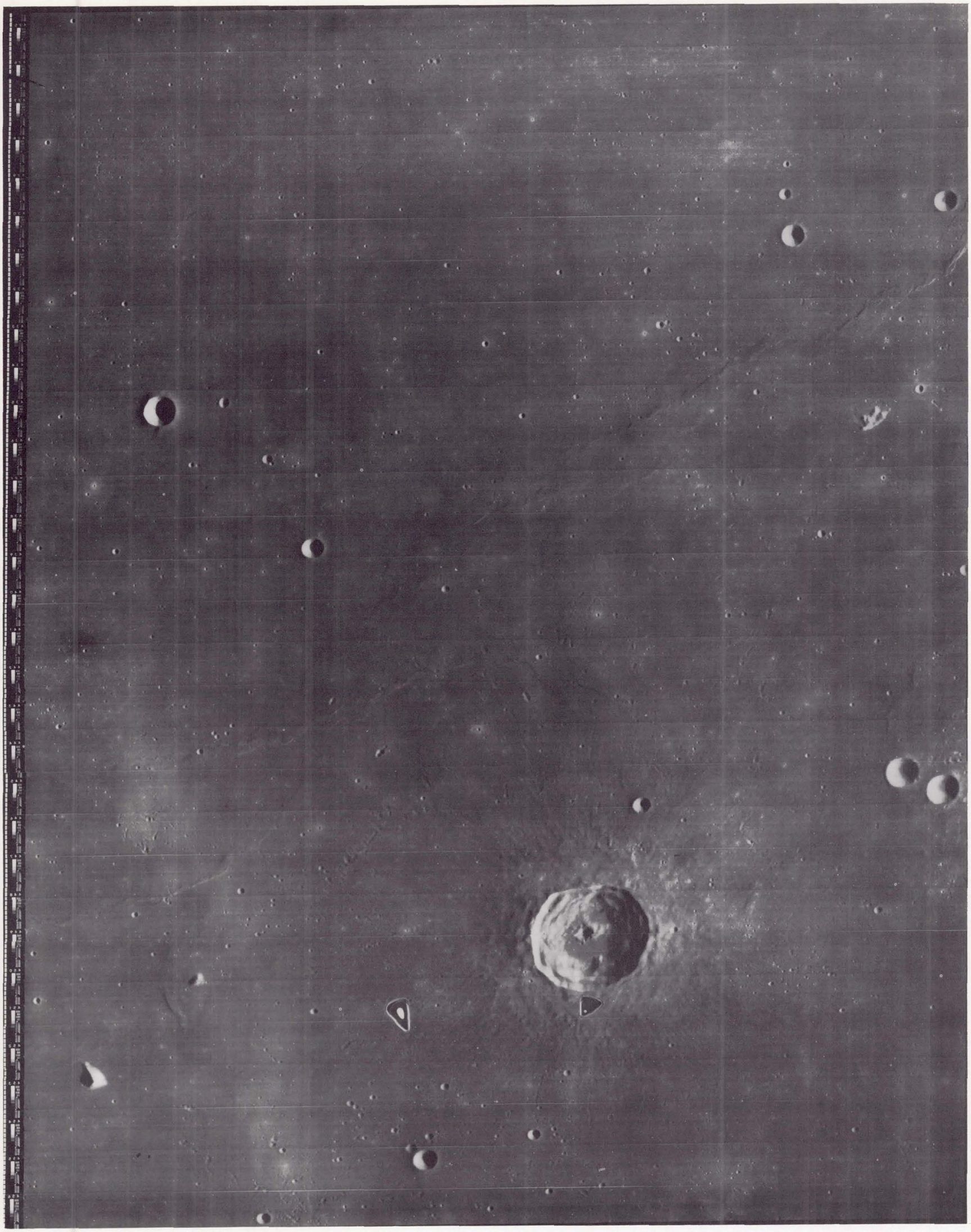


PHOTO NO. IV-122-H1

CENTER COORDINATES ..... LONG. –9.24
LAT. 42.08
NORTH DEVIATION (DEG.) ..... 342.41
SUN ANGLE ..... 69.3
SPACECRAFT ALTITUDE (KM) .... 2895.02

N

1 CENTIMETER ≈ 12 KILOMETERS

BEER ..... A10
FEUILLÉE..... A10
TIMOCHARIS .... E12

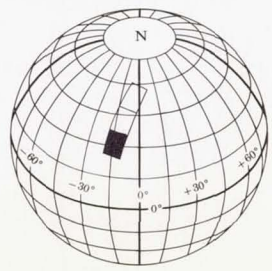
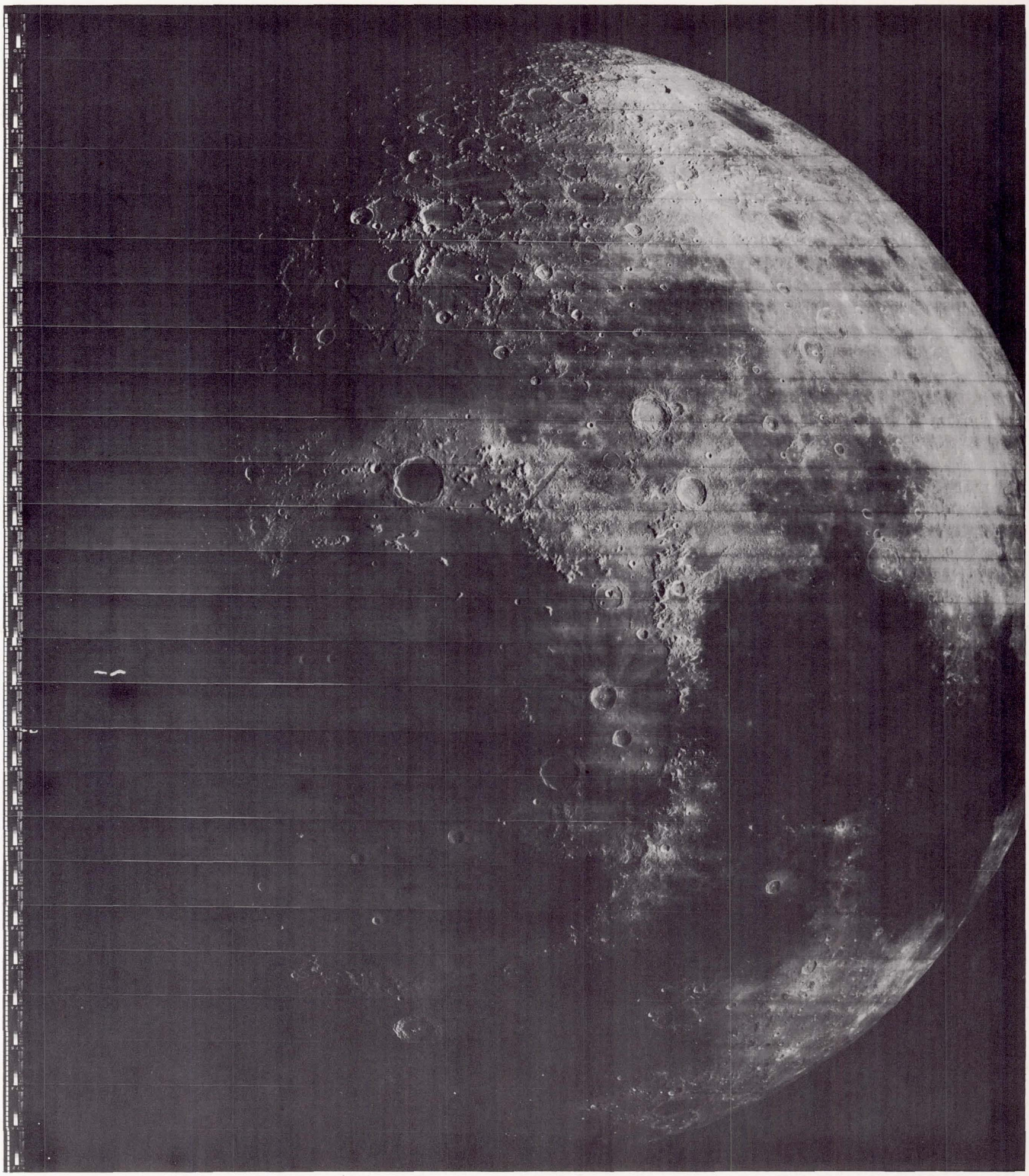
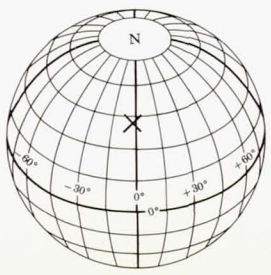



PLATE 96

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... G5
MARE IMBRIUM ..... F9
MARE SERNITATIS ..... K9

1 CENTIMETER ≈ 92 KILOMETERS

N

PHOTO NO. IV-115-M

CENTER COORDINATES ..... LONG. −2.67
LAT. 42.27
NORTH DEVIATION (DEG.) ..... 343.29
SUN ANGLE ..... 69.1
SPACECRAFT ALTITUDE (KM) ..... 2905.14

PLATE 97

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-115-H3

CENTER COORDINATES ..... LONG. −2.67
LAT. 42.27
NORTH DEVIATION (DEG.) ..... 343.29
SUN ANGLE ..... 69.1
SPACECRAFT ALTITUDE (KM) ..... 2905.14

1 CENTIMETER ≈12 KILOMETERS

VALLIS ALPES ..... D11
PROTAGORAS ..... E2
RIMA PLATO ..... L9
TROUVELOT ..... C10

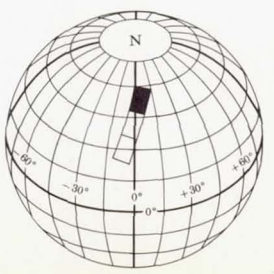
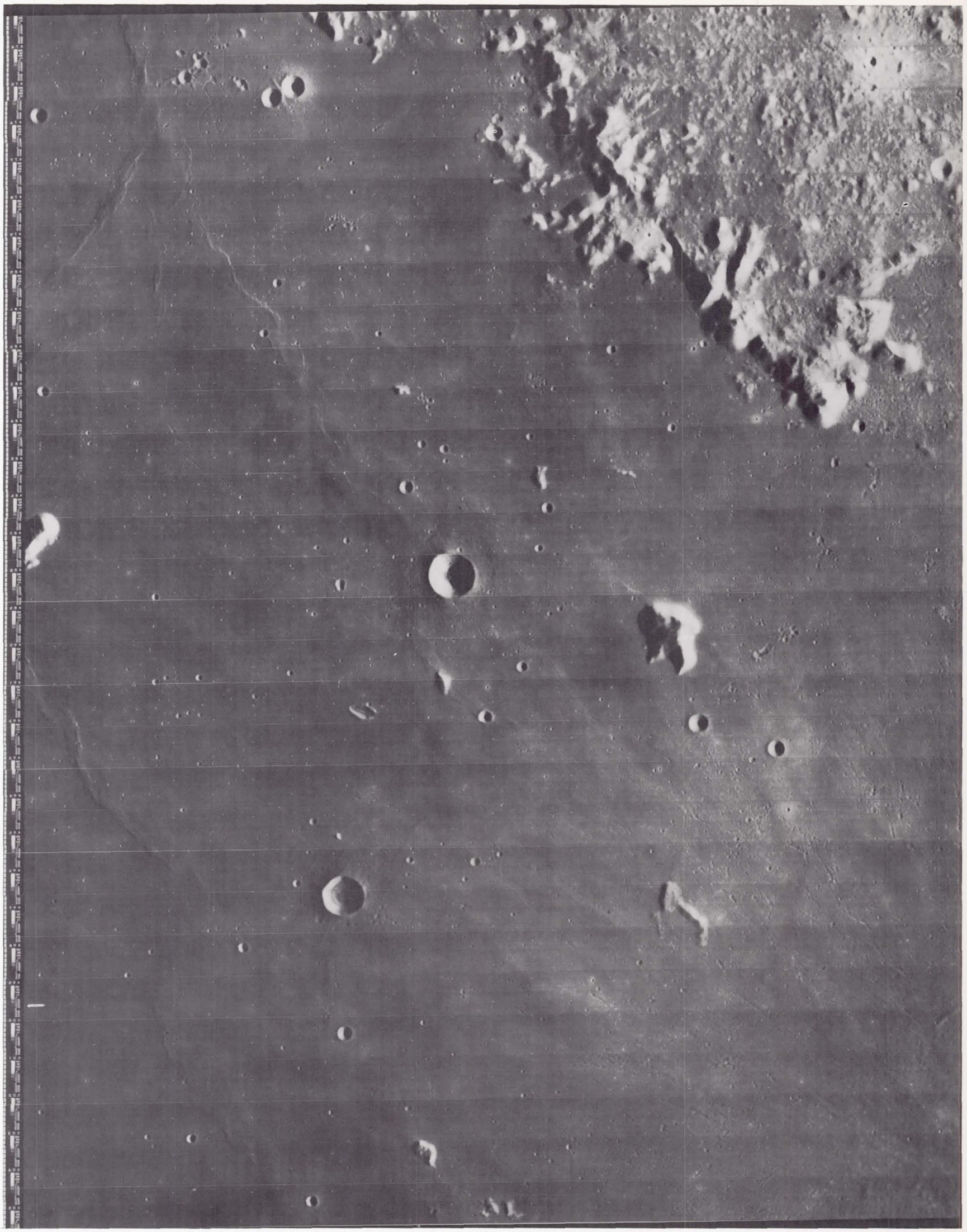
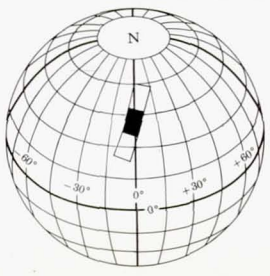



PLATE 98




KIRCH ..... E12
PIAZZI SMYTH .... F8
PITON ..... J8

1 CENTIMETER ≈ 12 KILOMETERS




PHOTO NO. IV-115-H2

CENTER COORDINATES ..... LONG. −2.67
LAT. 42.27
NORTH DEVIATION (DEG.) ..... 343.29
SUN ANGLE ..... 69.1
SPACECRAFT ALTITUDE (KM) ..... 2905.14

PLATE 99

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15

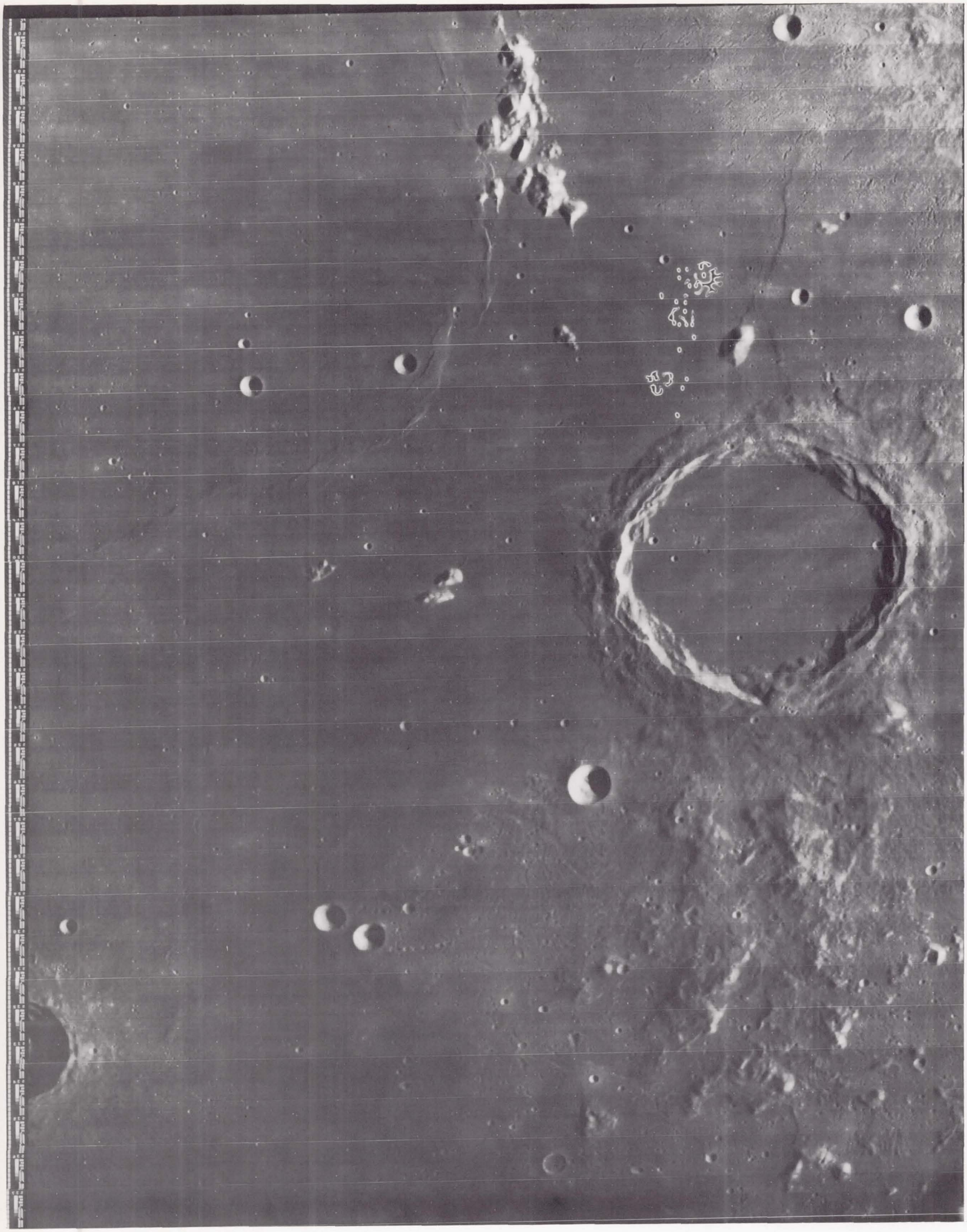


PHOTO NO. IV-115-H1

CENTER COORDINATES ..... LONG. −2.67
LAT. 42.27
NORTH DEVIATION (DEG.) ..... 343.29
SUN ANGLE ..... 69.1
SPACECRAFT ALTITUDE (KM) ..... 2905.14

N

1 CENTIMETER ≈12 KILOMETERS

ARCHIMEDES ..... C7
BEER ..... H12
FEUILLEE ..... H12
MONTES SPITZBERGENSIS ..... E2
TIMOCHARIS ..... M13

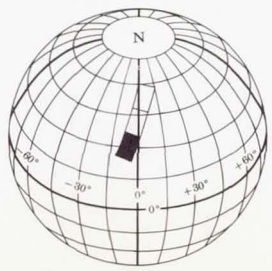
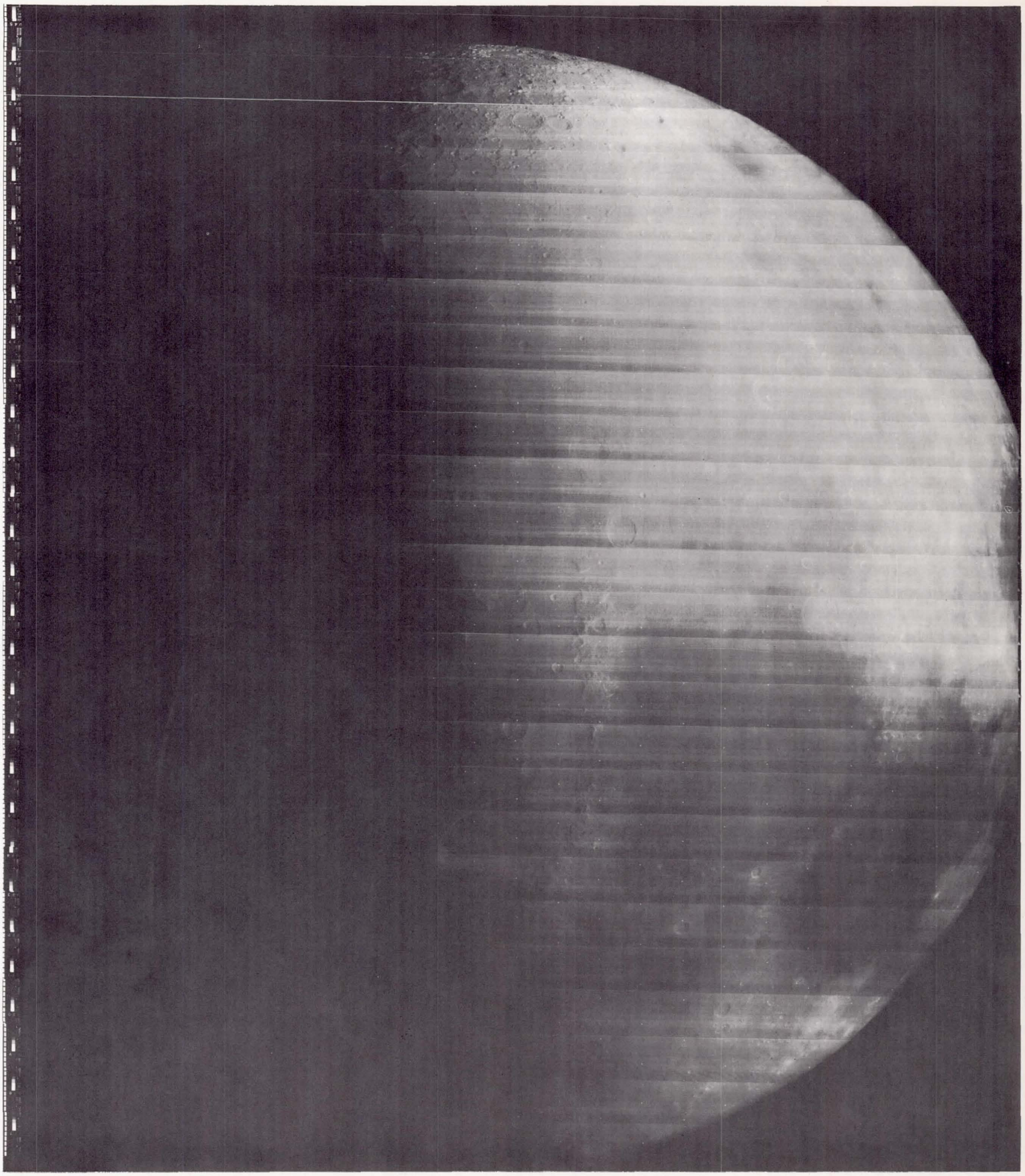
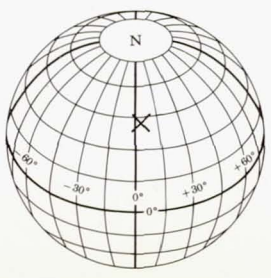



PLATE 100

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISUM ..... L11
MARE HUMBOLDTIANUM ..... J3
MARE SERENITATIS ..... J10

1 CENTIMETER ≈ 92 KILOMETERS

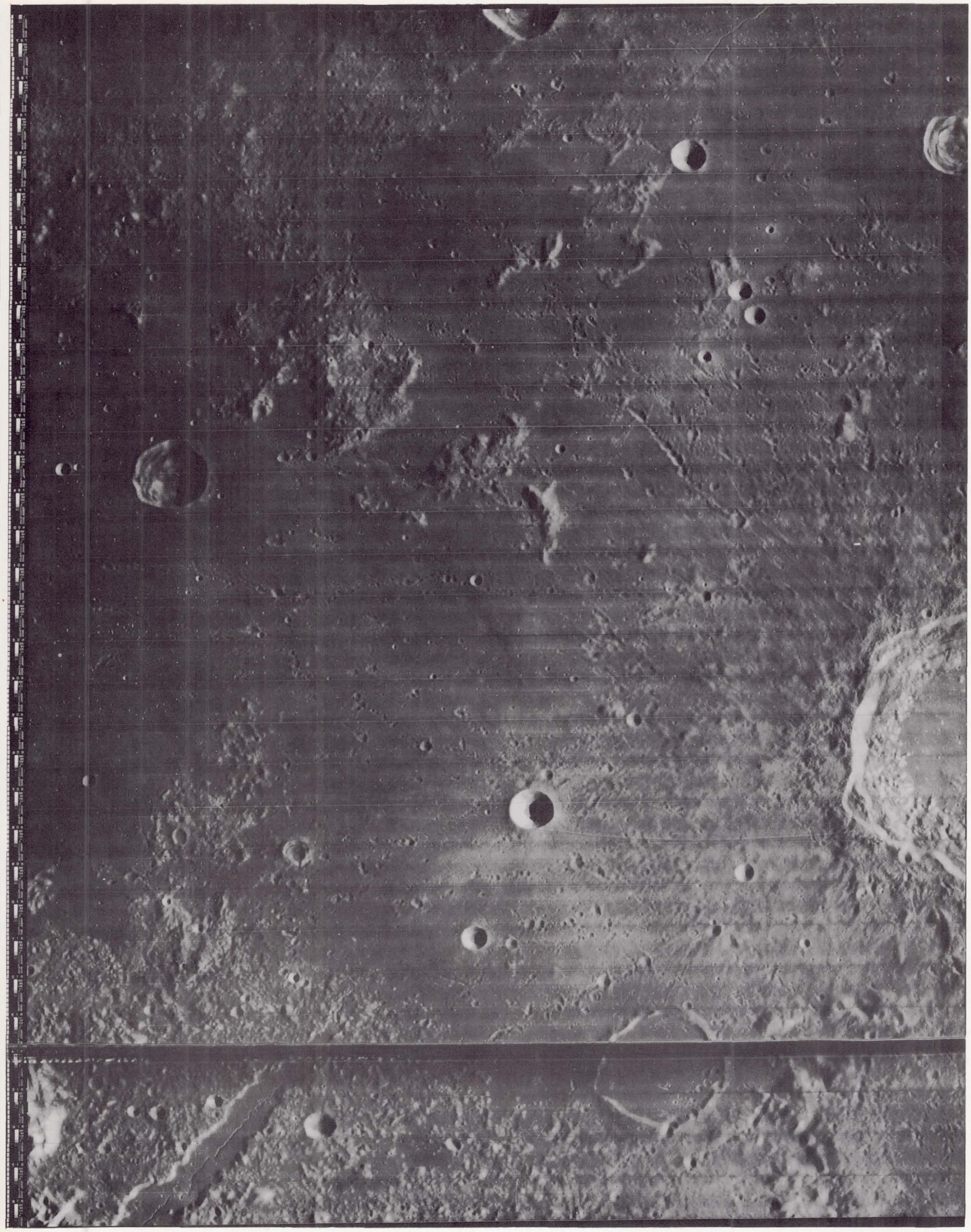



PHOTO NO. IV-110-M

CENTER COORDINATES ..... LONG. 3.35
LAT. 42.60
NORTH DEVIATION (DEG.) ..... 342.52
SUN ANGLE ..... 69.2
SPACECRAFT ALTITUDE (KM) .... 2915.84

PLATE 101

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-110-H3

CENTER COORDINATES ..... LONG. 3.35
LAT. 42.59
NORTH DEVIATION (DEG.) ..... 342.52
SUN ANGLE ..... 69.2
SPACECRAFT ALTITUDE (KM) .... 2915.82

1 CENTIMETER ≈ 12 KILOMETERS

ARISTOTELES ..... A10
EGEDE ..... D14
GALLE ..... A2
PROTAGORAS ..... K6
SHEEPSHANKS ..... F1

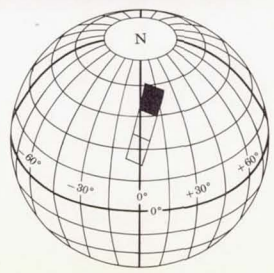
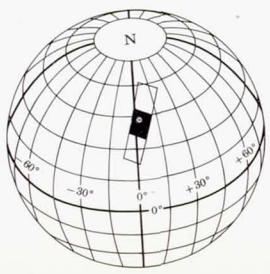



PLATE 102

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CASSINI ..... G11
THEAETETUS .... K14

1 CENTIMETER ≈ 12 KILOMETERS

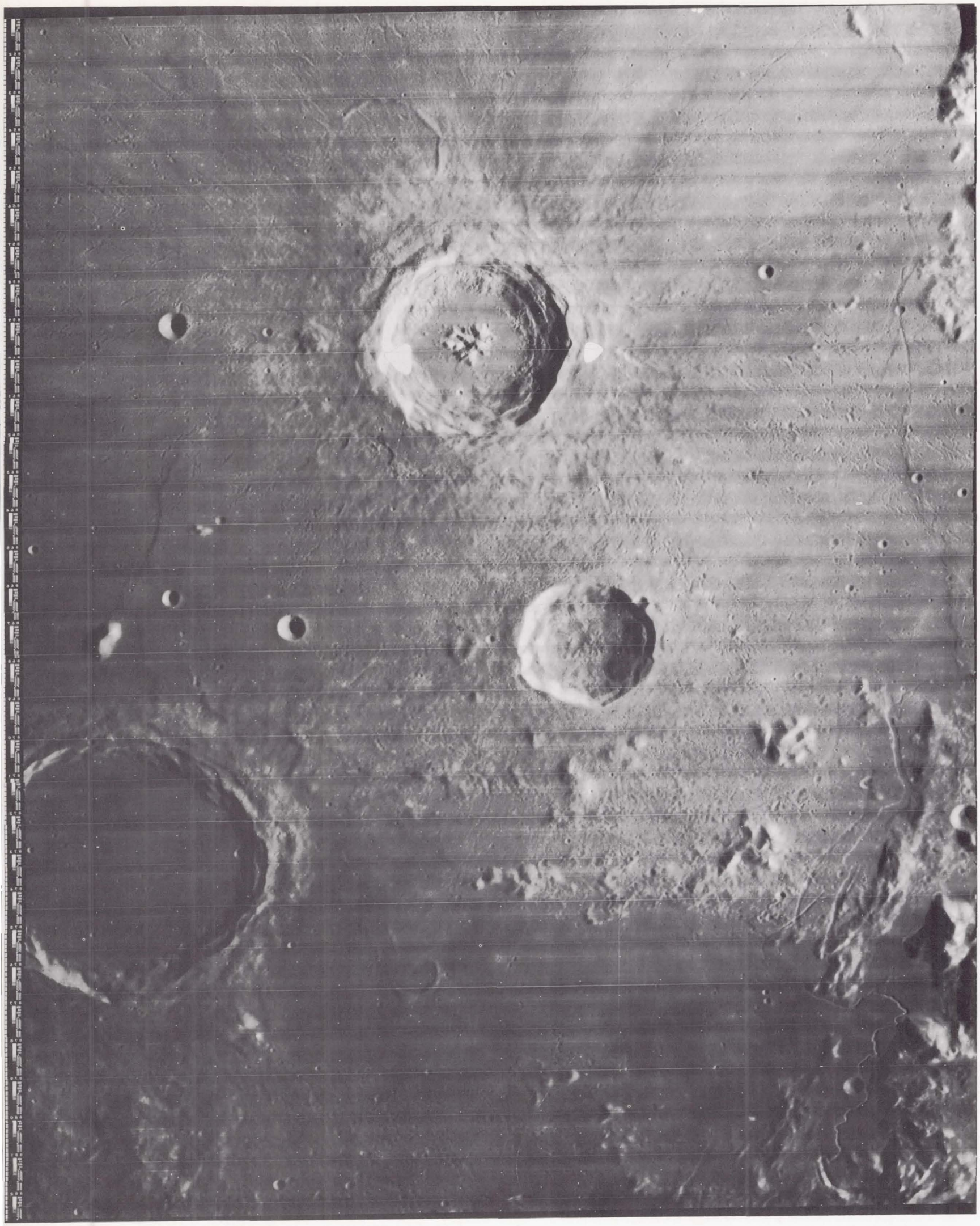
N

PHOTO NO. IV-110-H2

CENTER COORDINATES ..... LONG. 3.35
LAT. . .42.59
NORTH DEVIATION (DEG.) ..... 342.52
SUN ANGLE ..... 69.2
SPACECRAFT ALTITUDE (KM) .... 2915.82

PLATE 103

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-110-H1

CENTER COORDINATES ..... LONG. 3.35
LAT. ..42.59
NORTH DEVIATION (DEG.) ..... 342.52
SUN ANGLE ..... 69.2
SPACECRAFT ALTITUDE (KM) .... 2915.82

N

1 CENTIMETER ≈ 12 KILOMETERS

ARCHIMEDES ....L11
ARISTILLUS ..... G5
AUTOLYCUS ..... E8

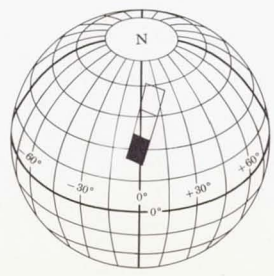
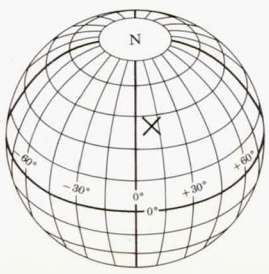



PLATE 104




MARE FRIGORIS ..... E5
MARE HUMBOLDTIANUM ..... J2
MARE SERENITATIS ..... H10
MARE TRANQUILLITATIS ..... K11
MARE VAPORUM ..... G12

1 CENTIMETER ≈ 93 KILOMETERS




PHOTO NO. IV-103-M

CENTER COORDINATES ..... LONG. 11.28
LAT. . 41.82
NORTH DEVIATION (DEG.) ..... 342.22
SUN ANGLE ..... 67.7
SPACECRAFT ALTITUDE (KM) .... 2926.57

PLATE 105

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

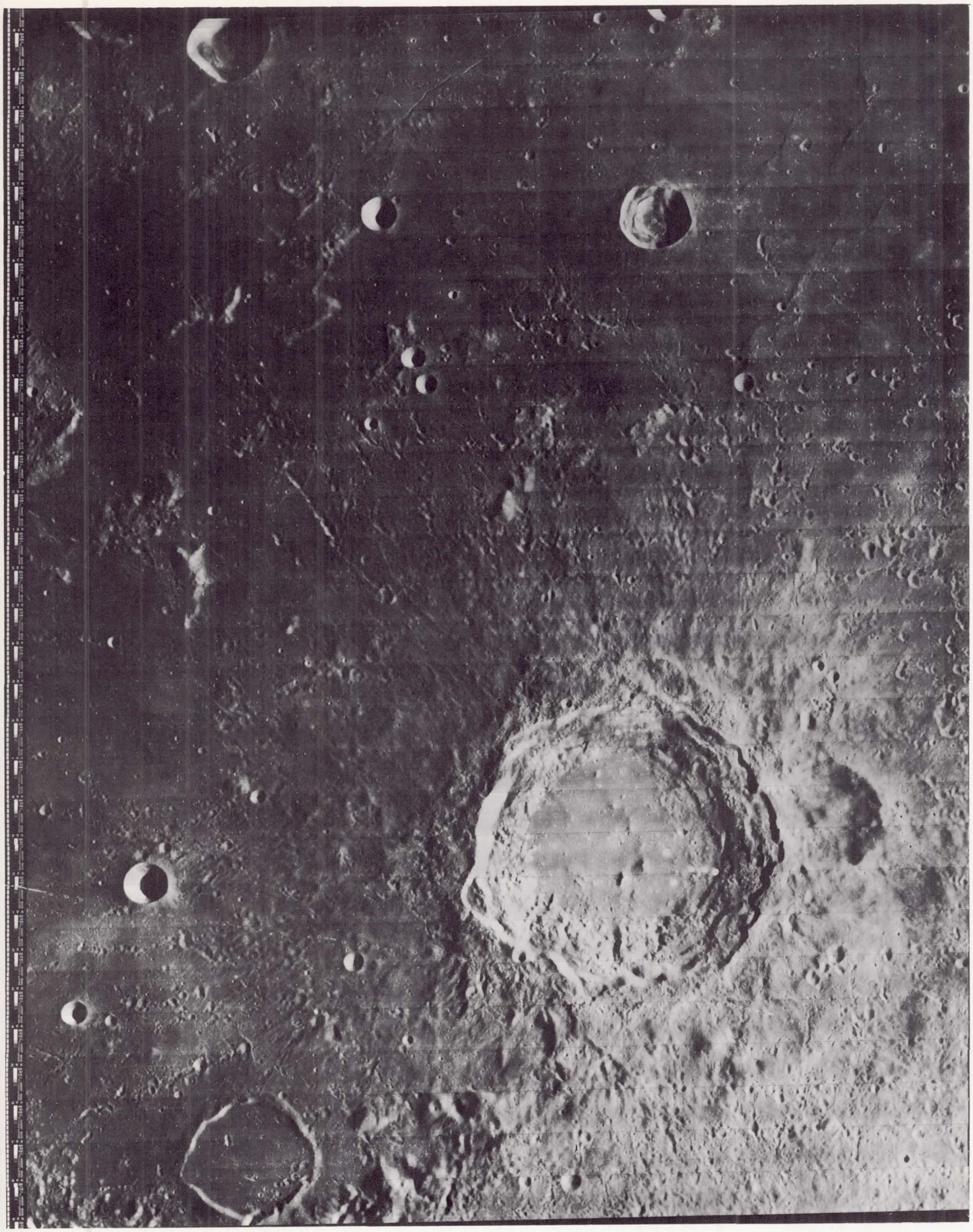


PHOTO NO. IV-103-H3

CENTER COORDINATES ..... LONG. 11.28
LAT. 41.82
NORTH DEVIATION (DEG.) ..... 342.22
SUN ANGLE ..... 67.7
SPACECRAFT ALTITUDE (KM) .... 2926.55

N

1 CENTIMETER ≈ 12 KILOMETERS

ARISTOTELES .... E11
EGEDE ..... K15
GALLE ..... D3
MITCHELL ..... B11
SHEEPSHANKS .... K1

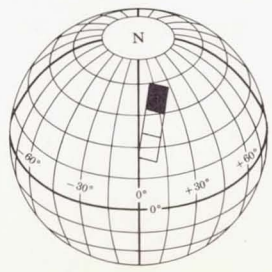
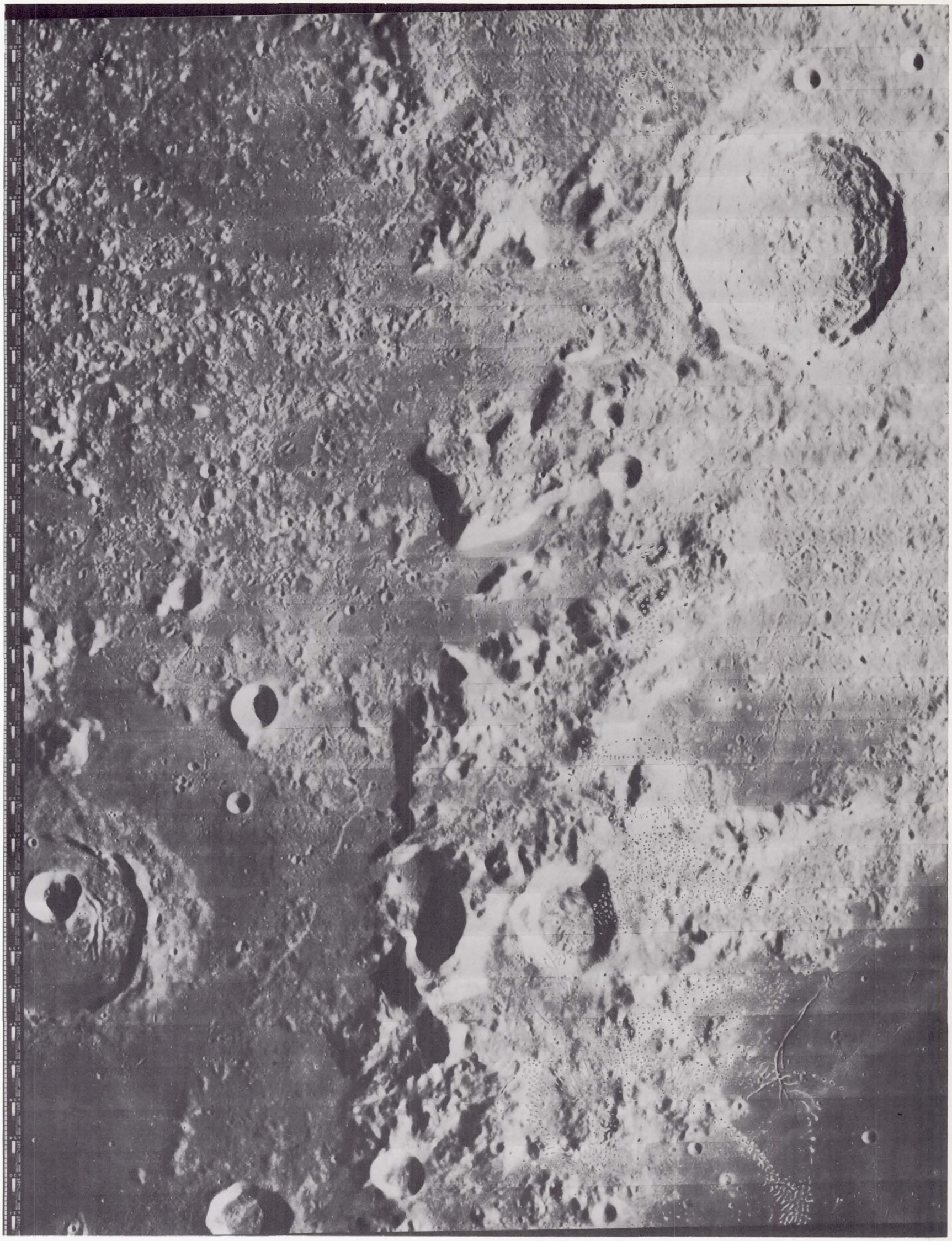
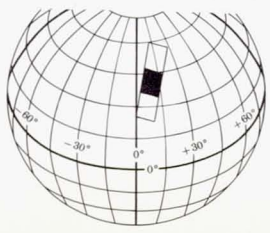



PLATE 106






ALEXANDER ..... L9
CALIPPUS ..... H12
CASSINI ..... A12
EUDOXUS ..... L3
LAMECH ..... H6
THEAETETUS .... D16

1 CENTIMETER ≈ 12 KILOMETERS

PHOTO NO. IV-103-H2

CENTER COORDINATES ..... LONG. 11.28
LAT. 41.82
NORTH DEVIATION (DEG.) ..... 342.22
SUN ANGLE ..... 67.7
SPACECRAFT ALTITUDE (KM) .... 2926.55

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

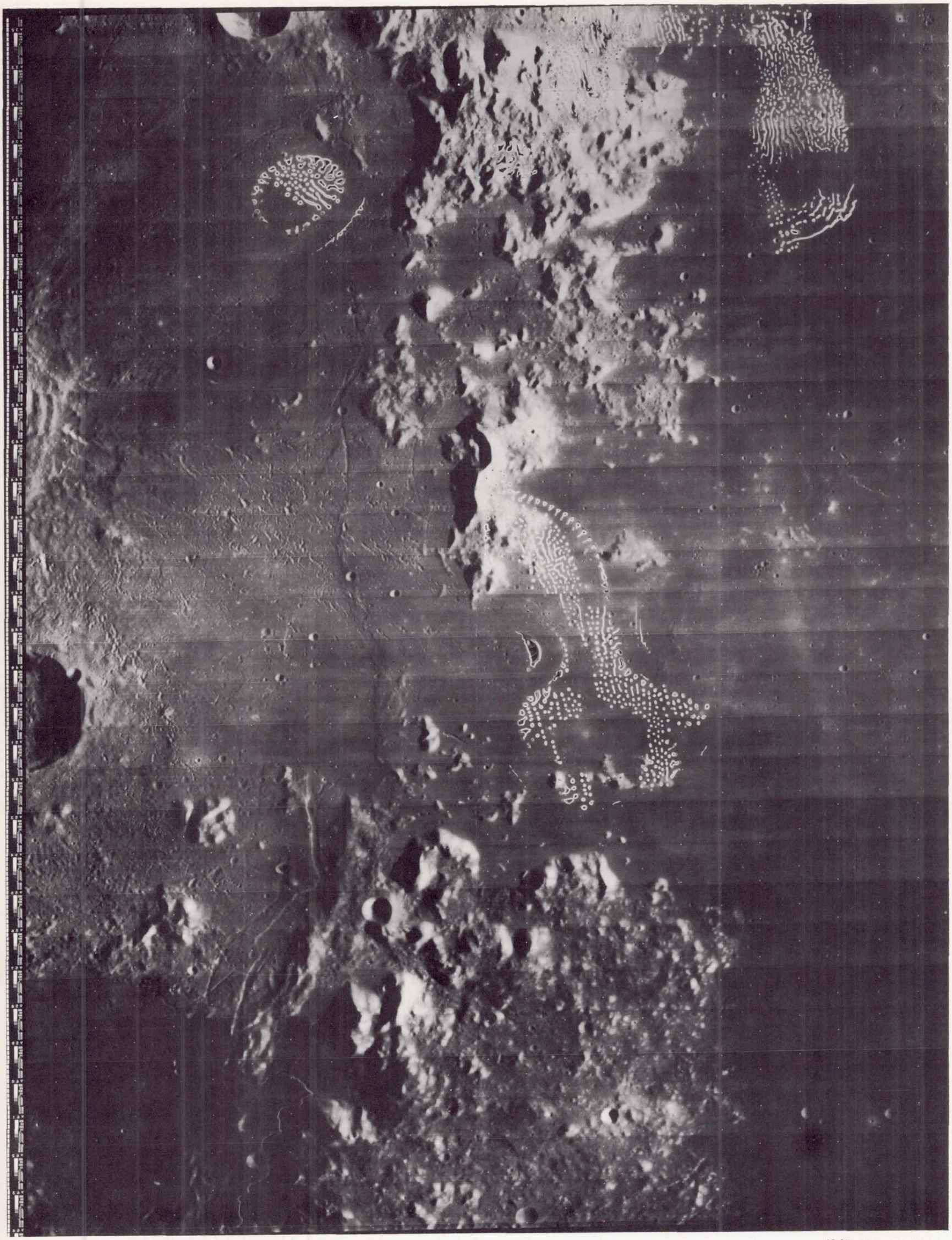


PHOTO NO. IV-103-H1

CENTER COORDINATES ..... LONG. 11.28
LAT. 41.82
NORTH DEVIATION (DEG.) ..... 342.22
SUN ANGLE ..... 67.7
SPACECRAFT ALTITUDE (KM) .... 2926.55

N

1 CENTIMETER ≈ 12 KILOMETERS

AUTOLYCUS .... M9

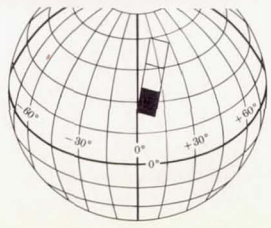
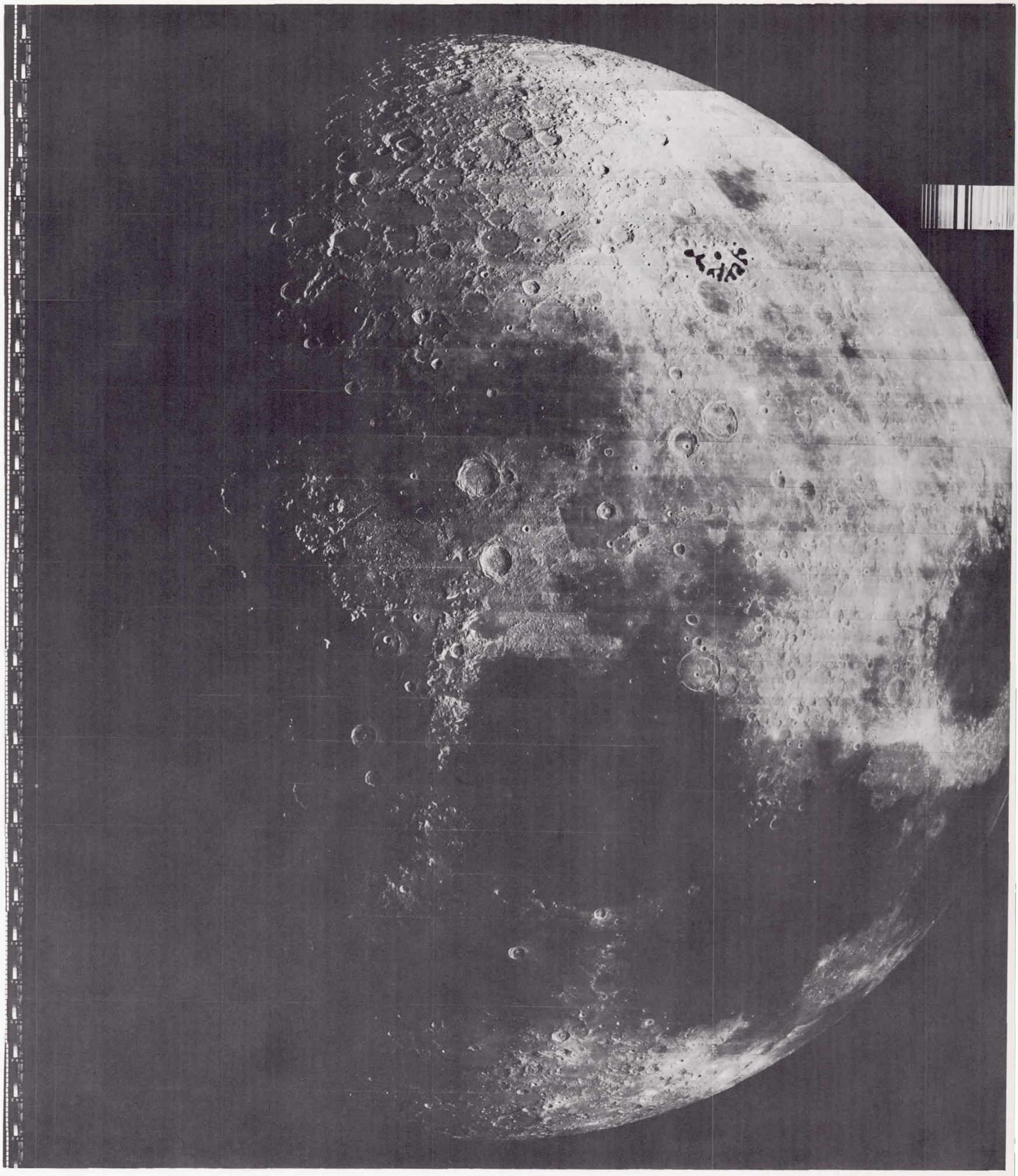
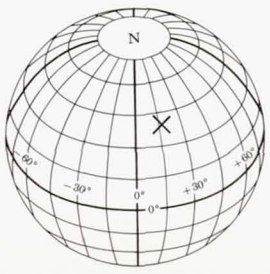



PLATE 108

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... M8
MARE FRIGORIS ..... E6
MARE HUMBOLDTIANUM ..... J3
MARE SERENITATIS ..... H10
MARE TRANQUILLITATIS ..... J12

1 CENTIMETER ≈ 93 KILOMETERS

N

PHOTO NO. IV-98-M

CENTER COORDINATES ..... LONG. 18.53
LAT. 40.98
NORTH DEVIATION (DEG.) .....341.30
SUN ANGLE .....66.6
SPACECRAFT ALTITUDE (KM) .....2937.52

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

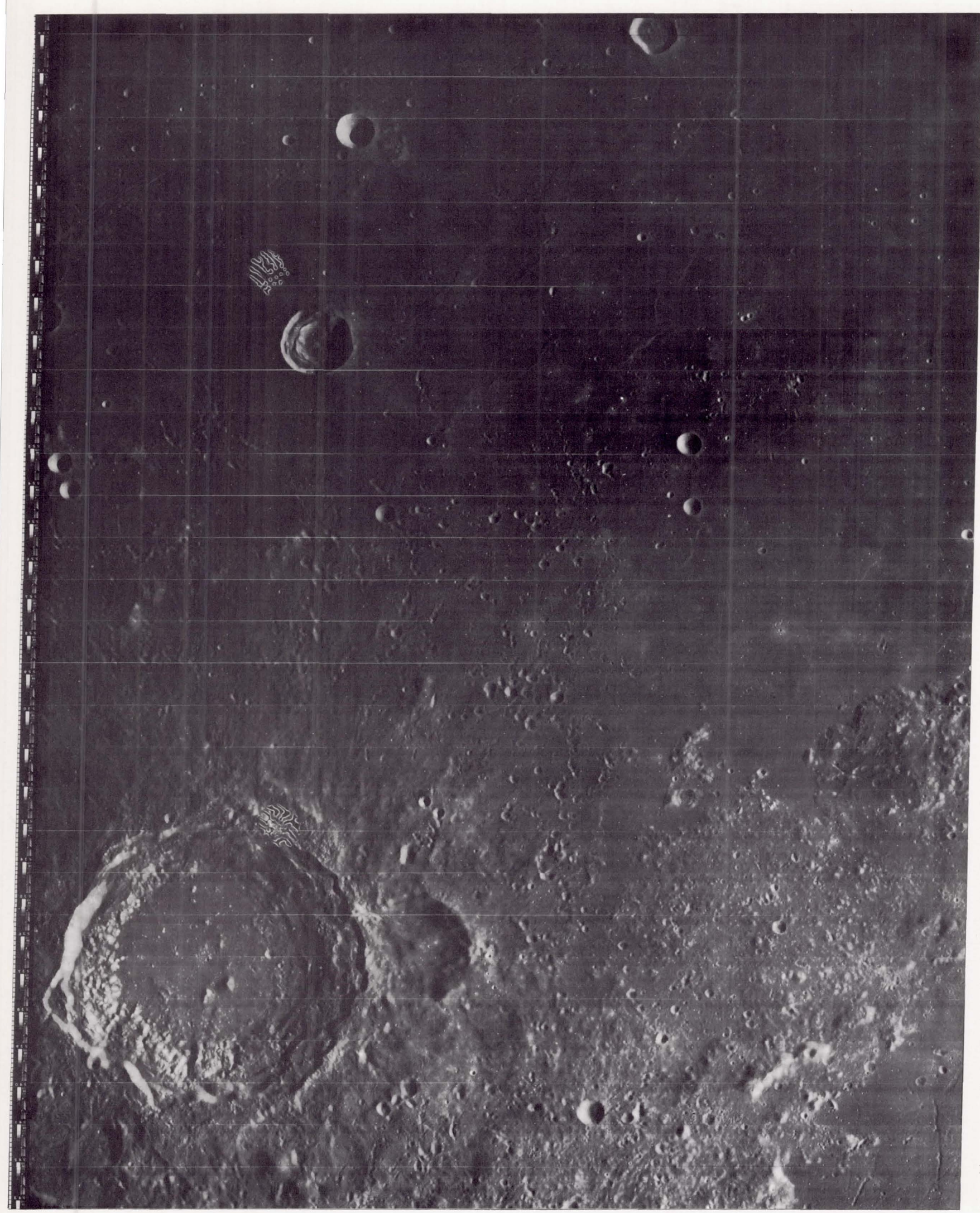


PHOTO NO.IV-98-H3

CENTER COORDINATES ..... LONG. 18.53
LAT. 40.97
NORTH DEVIATION (DEG.) ..... 341.30
SUN ANGLE ..... 66.6
SPACECRAFT ALTITUDE (KM) ..... 2937.50

1 CENTIMETER ≈ 12 KILOMETERS

ARISTOTELES .... K12
GALLE ..... J5
MITCHELL ..... G12

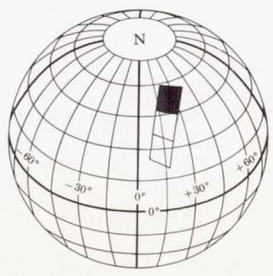
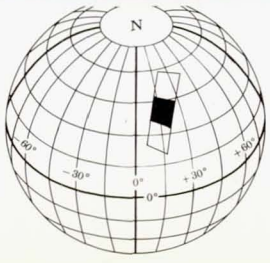



PLATE 110

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ALEXANDER .... D11
CALIPPUS ..... A13
LAMECH ..... B8
EUDOXUS ..... E5

1 CENTIMETER ≈ 12 KILOMETERS

N

PHOTO NO. IV-98-H2

CENTER COORDINATES ..... LONG. 18.53
LAT. 40.97
NORTH DEVIATION (DEG.) ..... 341.30
SUN ANGLE ..... 66.6
SPACECRAFT ALTITUDE (KM) ..... 2937.50

PLATE 111

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

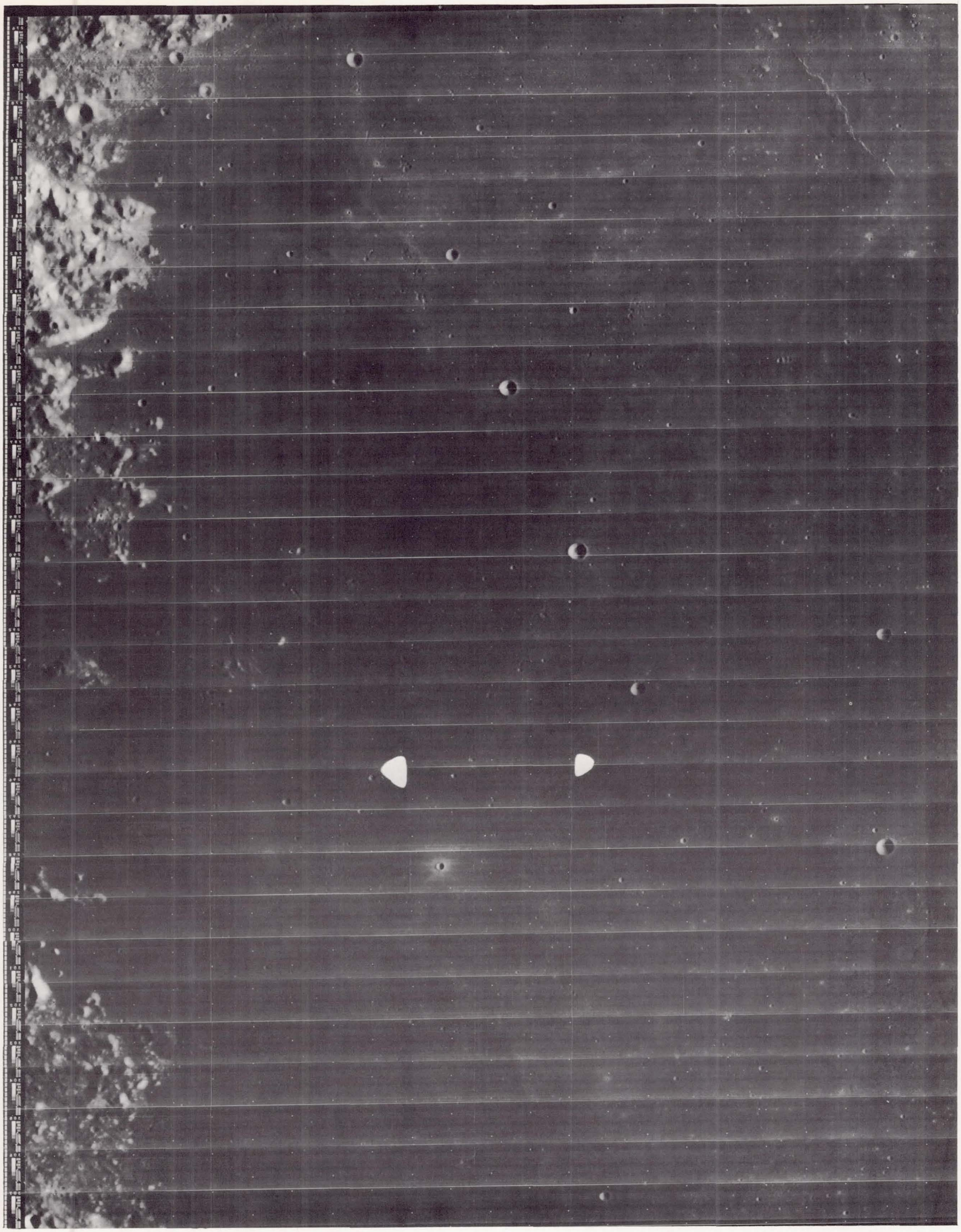


PHOTO NO. IV-98-H1

CENTER COORDINATES ..... LONG. 18.53
LAT. 40.97
NORTH DEVIATION (DEG.) .....341.30
SUN ANGLE .....66.6
SPACECRAFT ALTITUDE (KM) .....2937.50

N

1 CENTIMETER ≈ 12 KILOMETERS

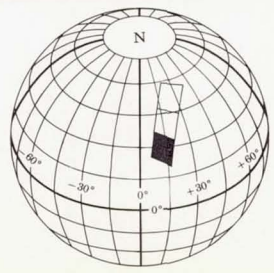
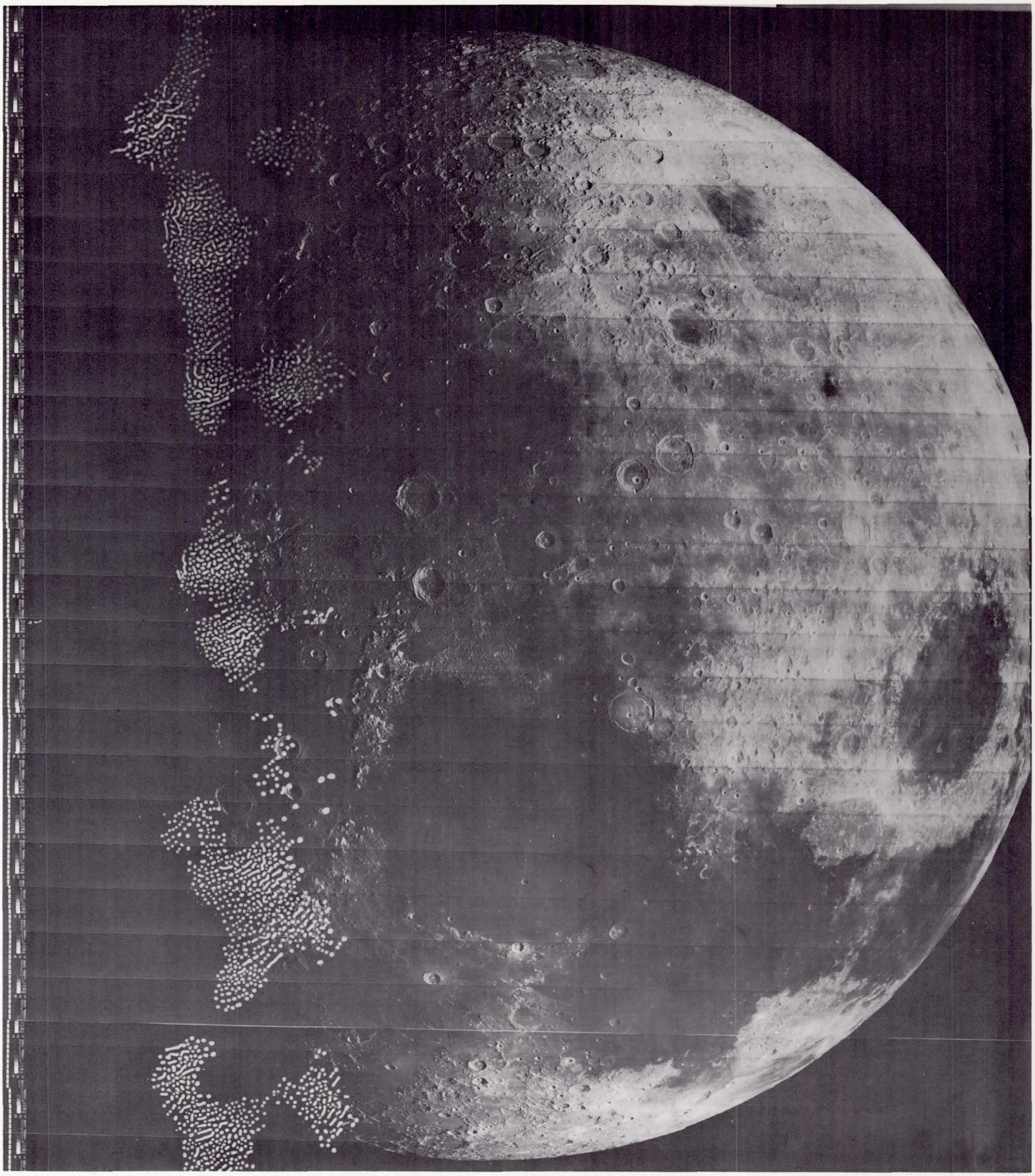
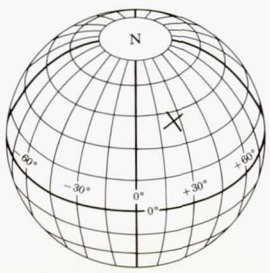



PLATE 112

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... M8
MARE FRIGORIS ..... E6
MARE HUMBOLDTIANUM .... J3
MARE SERENITATIS ..... G10
MARE TRANQUILLITATIS .... J12
LACUS SOMNIORUM ..... H8

1 CENTIMETER ≈93 KILOMETERS




PHOTO NO. IV-91-M

CENTER COORDINATES ..... LONG. 25.73
LAT. 42.04
NORTH DEVIATION (DEG.) ..... 341.48
SUN ANGLE ..... 66.3
SPACECRAFT ALTITUDE (KM) ..... 2947.27

PLATE 113

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

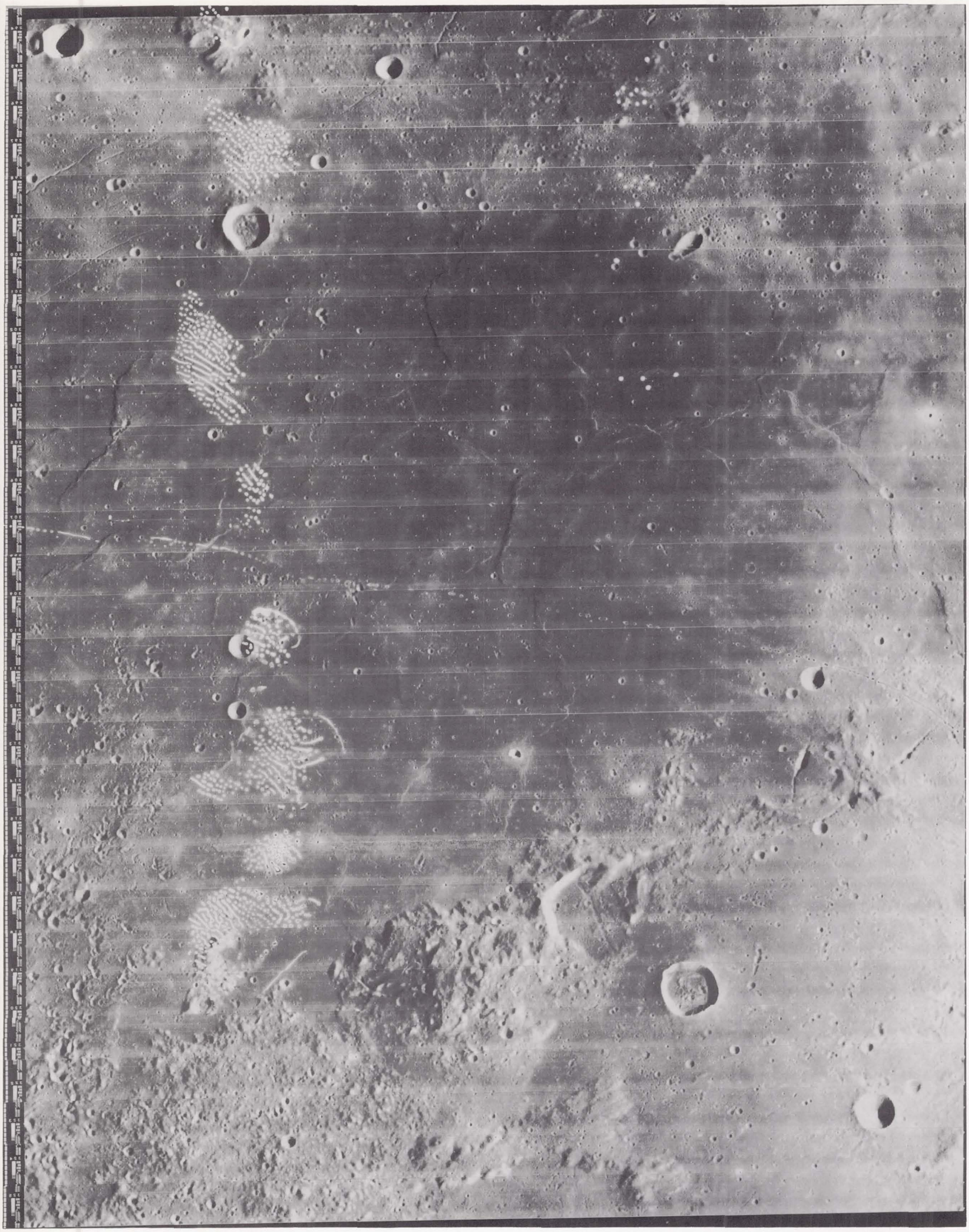


PHOTO NO. IV-91-H3

CENTER COORDINATES ..... LONG. 25.72
LAT. 42.03
NORTH DEVIATION (DEG.) ..... 341.48
SUN ANGLE ..... 66.3
SPACECRAFT ALTITUDE (KM) ..... 2947.25

N

1 CENTIMETER ≈12 KILOMETERS

BAILY .... E12

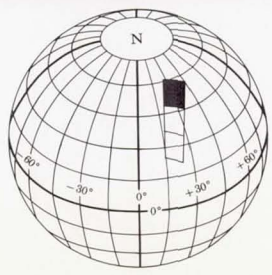
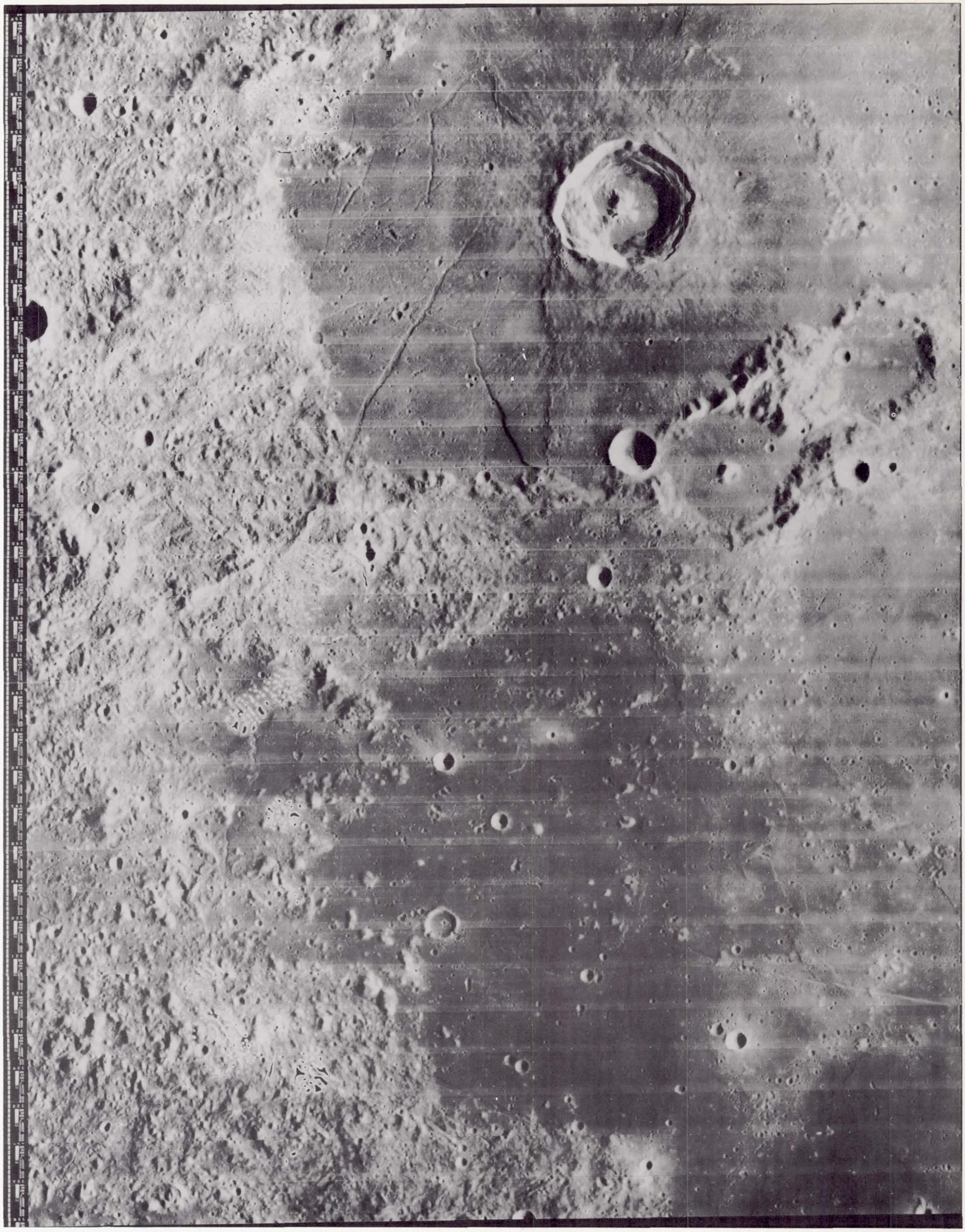
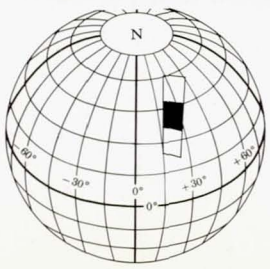



PLATE 114

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BURG ..... H3
LACUS MORTIS .... F4
MASON ..... L5
PLANA ..... K6

1 CENTIMETER≈ 12 KILOMETERS




PHOTO NO. IV-91-H2

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | 25.72 |
| | LAT. | 42.03 |
| NORTH DEVIATION (DEG.) ..... | | 341.48 |
| SUN ANGLE ..... | | 66.3 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2947.25 |

PLATE 115

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

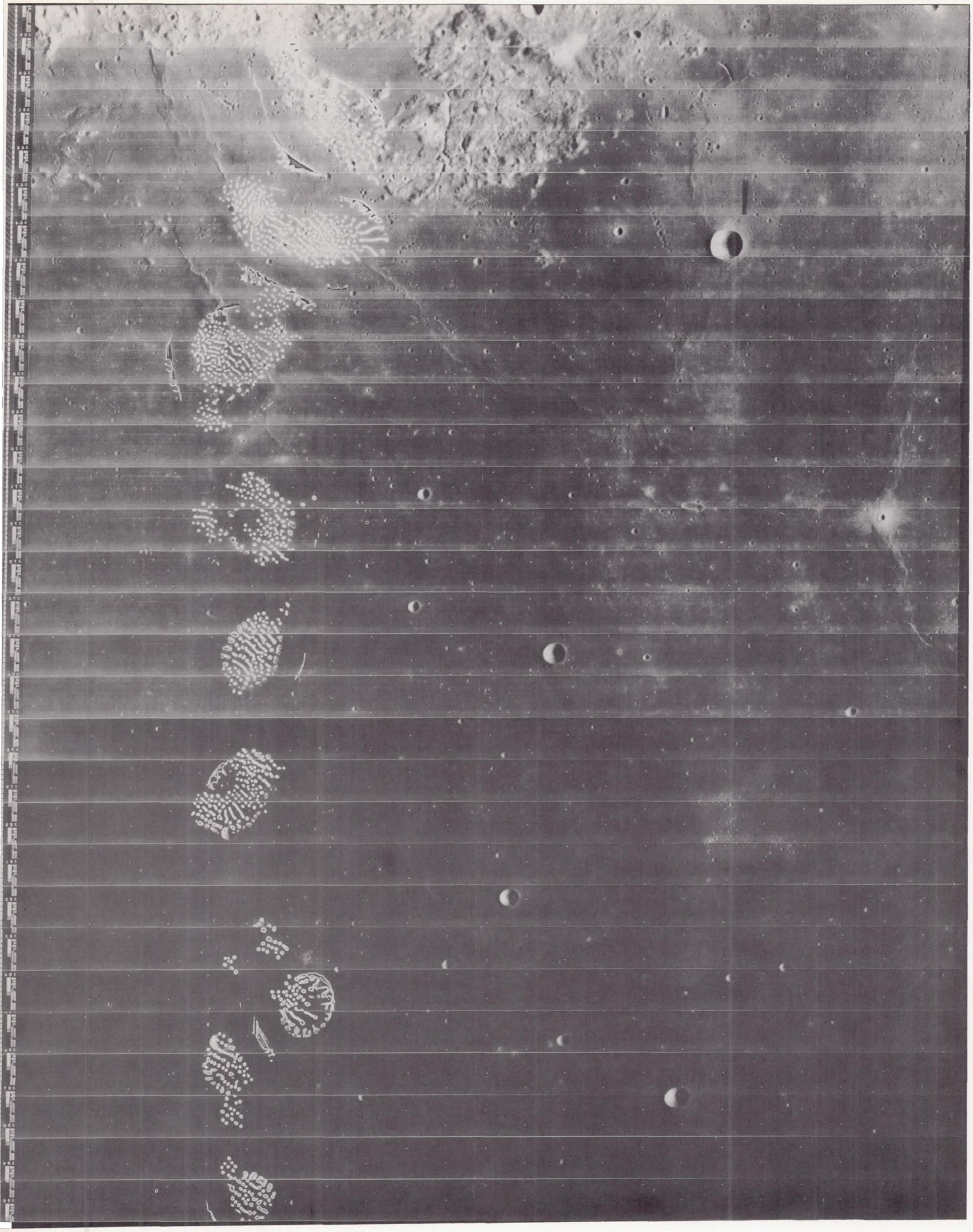


PHOTO NO. IV-91-H1

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | 25.72 |
| | LAT. | 42.03 |
| NORTH DEVIATION (DEG.) ..... | | 341.48 |
| SUN ANGLE ..... | | 66.3 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2947.25 |

N

1 CENTIMETER ≈ 12 KILOMETERS

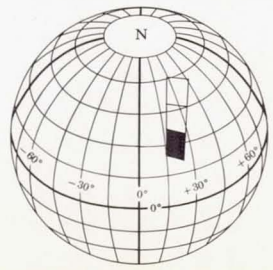
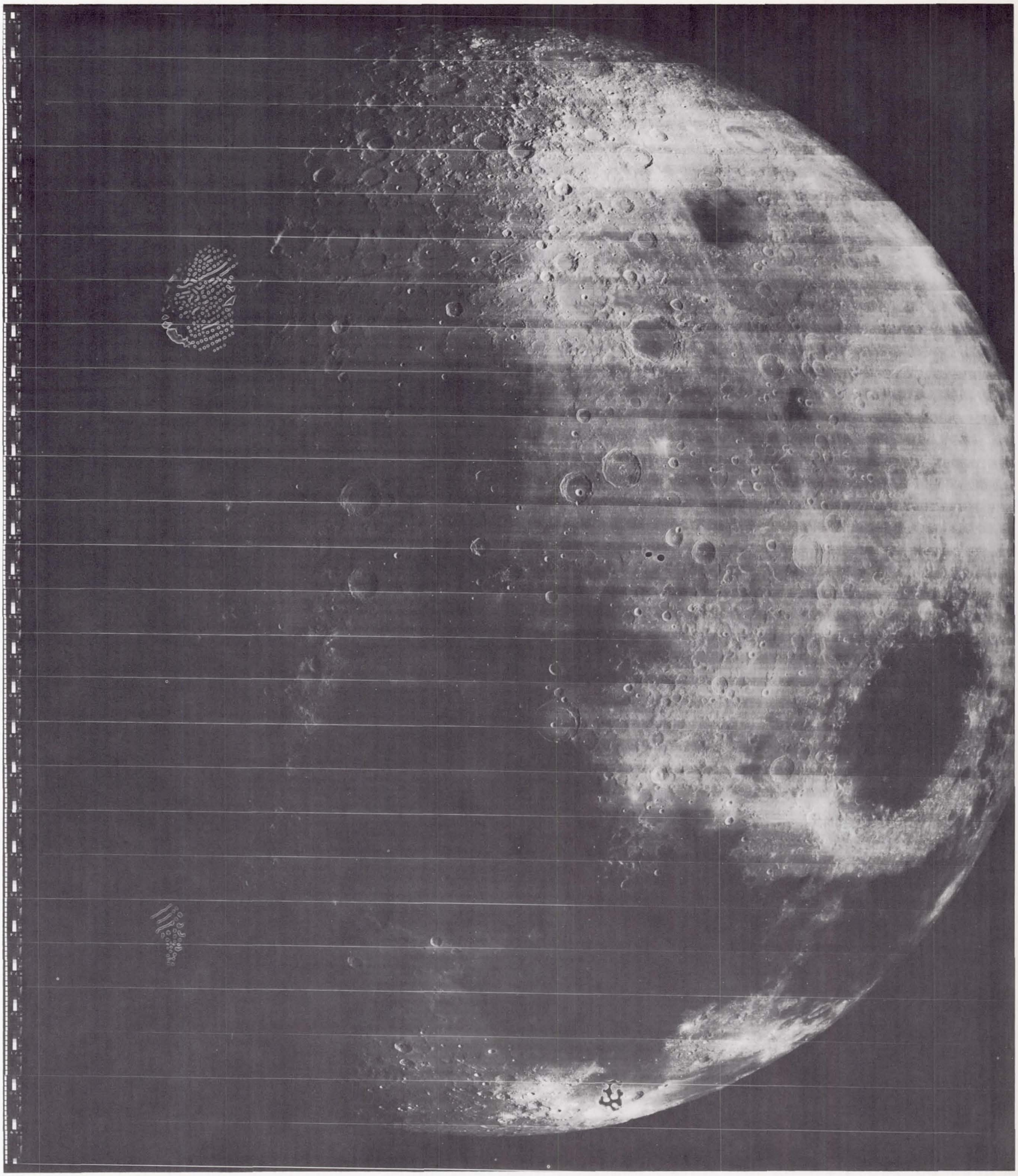
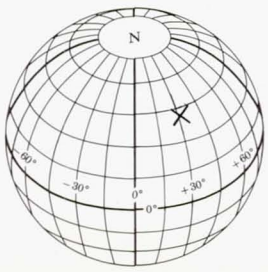



PLATE 116

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... I9
MARE HUMBOLDTIANUM ..... J3
MARE TRANQUILLITATIS ..... H12

1 CENTIMETER ≈ 94 KILOMETERS

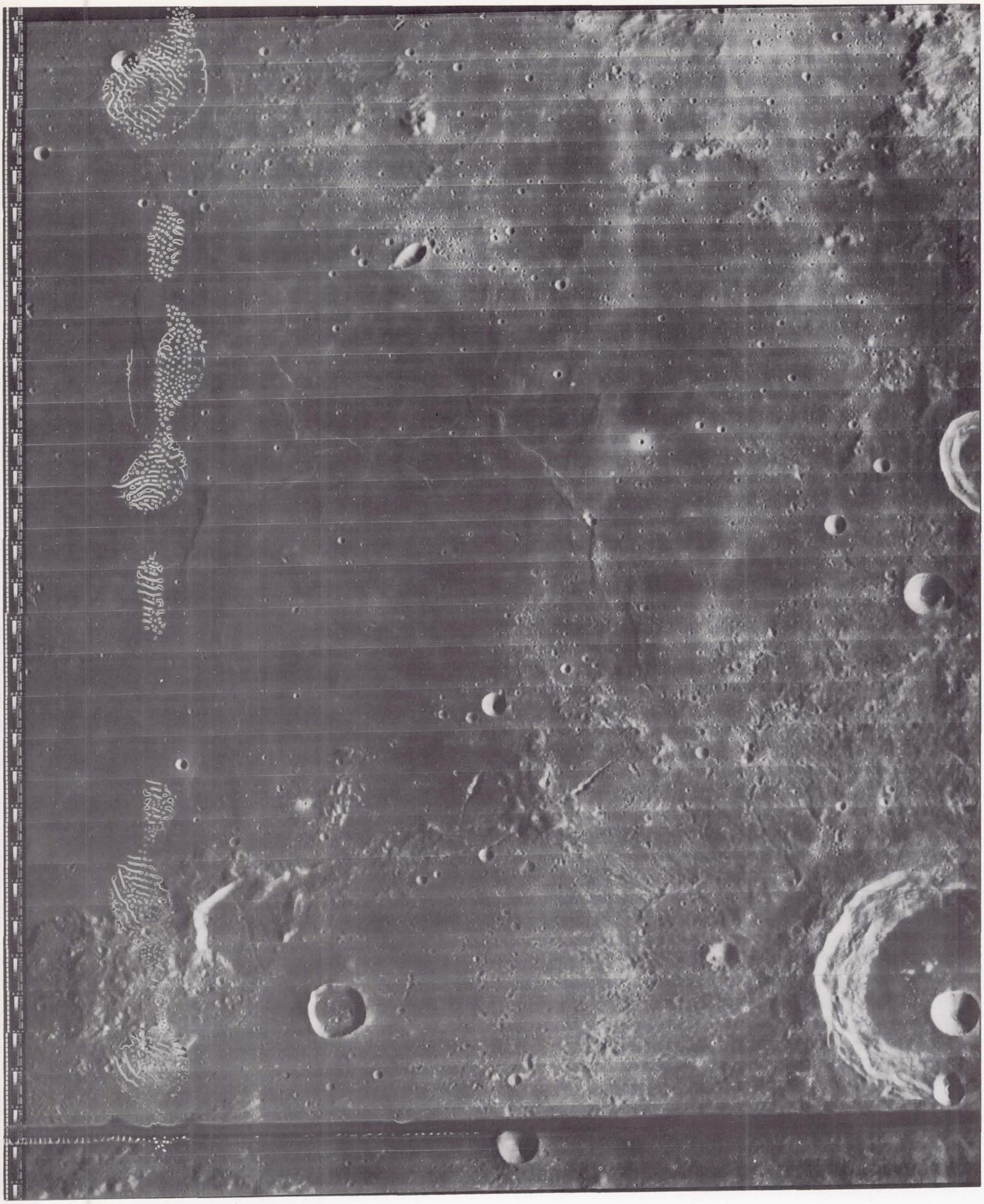
N

PHOTO NO. IV-86-M

CENTER COORDINATES ..... LONG. 31.25
LAT. 41.02
NORTH DEVIATION (DEG.) ..... 341.36
SUN ANGLE ..... 66.3
SPACECRAFT ALTITUDE (KM) .... 2956.10

PLATE 117

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV -86-H3

CENTER COORDINATES ..... LONG. 31.25
LAT. 41.02
NORTH DEVIATION (DEG.) ..... 341.36
SUN ANGLE ..... 66.3
SPACECRAFT ALTITUDE (KM) .... 2956.08

N

*1 CENTIMETER ≈ 12 KILOMETERS*

BAILY ..... K12
HERCULES .... A12

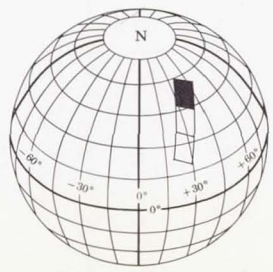
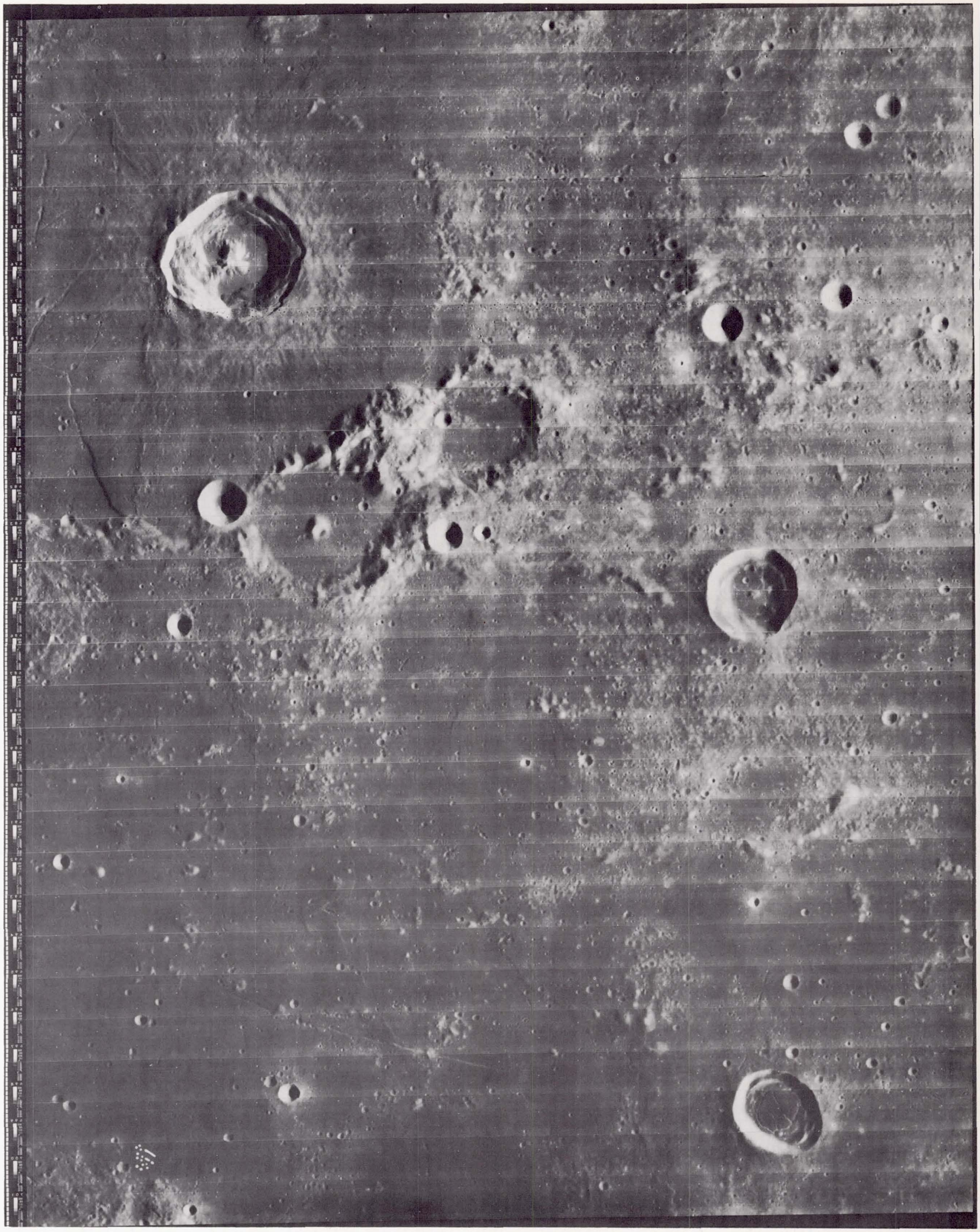
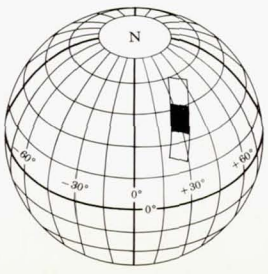



PLATE 118

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BURG ..... D3
DANIELL .... K14
GROVE ..... K8
MASON ..... F5
PLANA ..... D7

1 CENTIMETER ≈ 12 KILOMETERS

PHOTO NO. IV-86-H2

CENTER COORDINATES ..... LONG. 31.2
LAT. 41.0
NORTH DEVIATION (DEG.) ..... 341.3
SUN ANGLE ..... 66.3
SPACECRAFT ALTITUDE (KM) .... 2956.0

PLATE 119

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

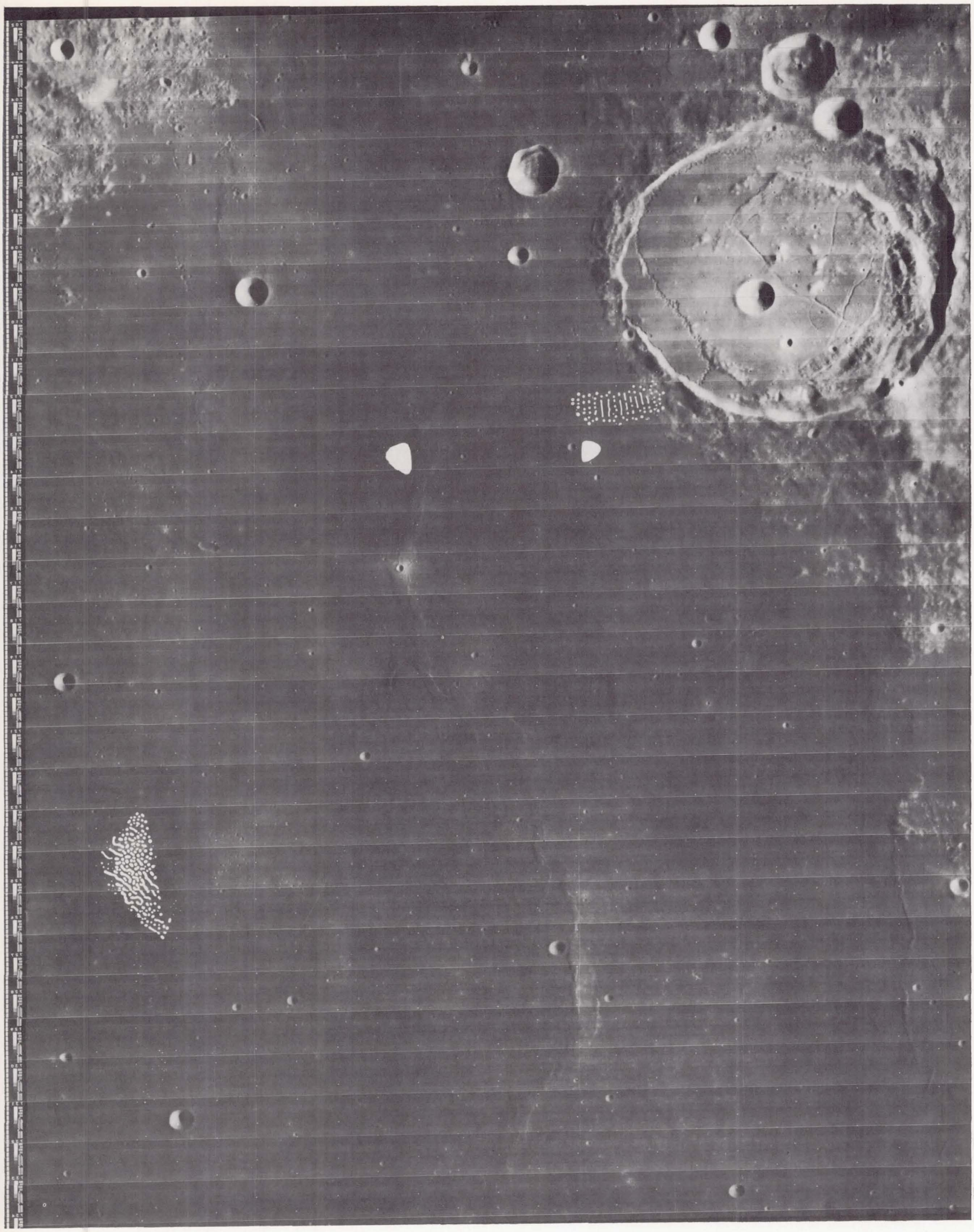


PHOTO NO. IV-86-H1

CENTER COORDINATES ..... LONG. 31.25
LAT. 41.02
NORTH DEVIATION (DEG.) ..... 341.36
SUN ANGLE ..... 66.3
SPACECRAFT ALTITUDE (KM) ... 2956.08

N

1 CENTIMETER ≈ 12 KILOMETERS

POSIDONIUS .... C4

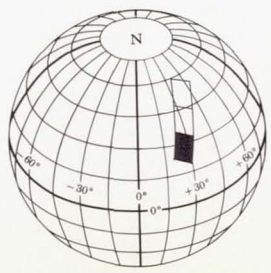
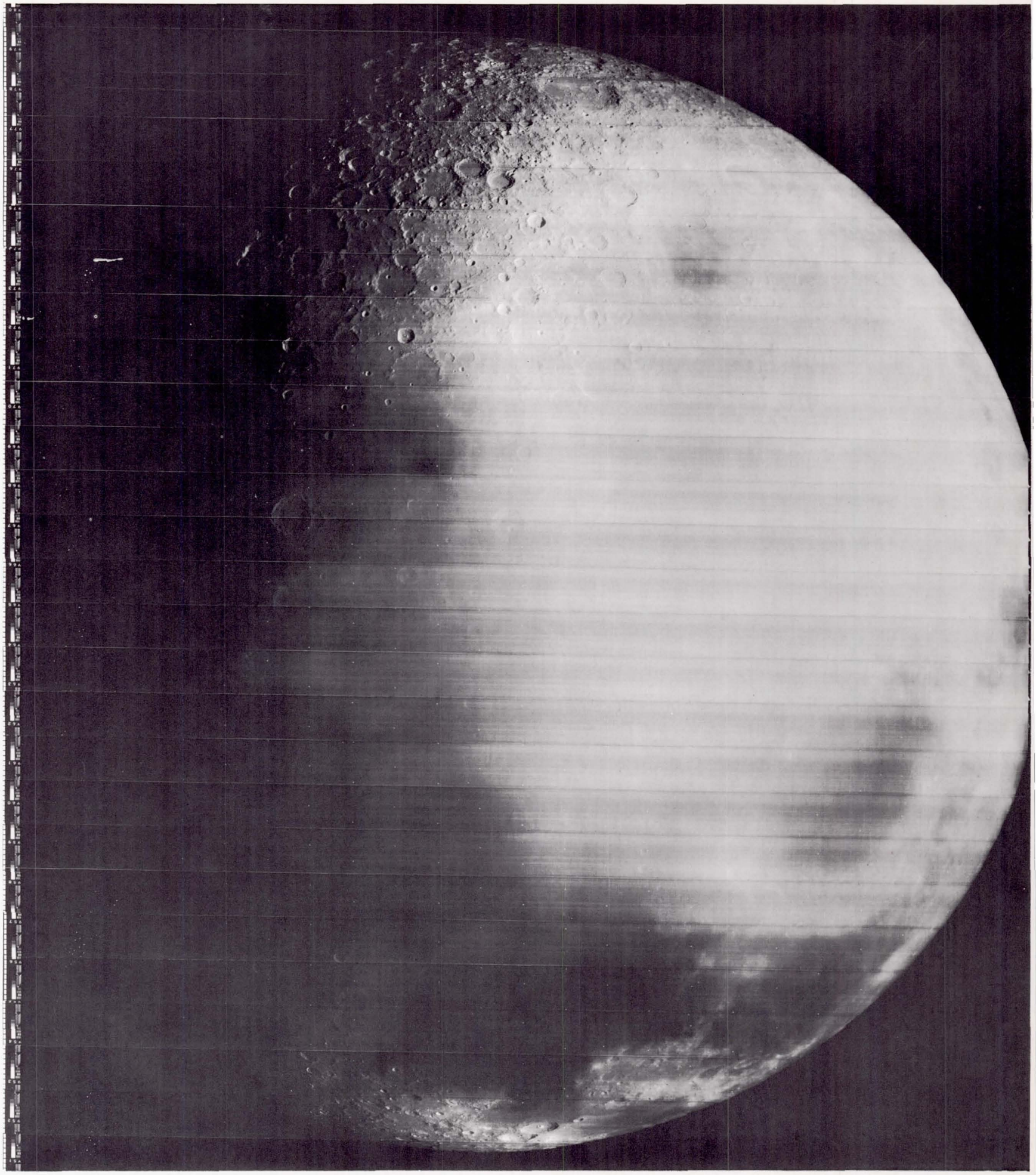
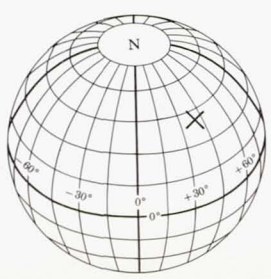



PLATE 120

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... K10
MARE FECUNDITATIS ..... K12

1 CENTIMETER ≈ 94 KILOMETERS

PHOTO NO. IV-79-M

CENTER COORDINATES ..... LONG. 39.05
LAT. 41.83
NORTH DEVIATION (DEG.) ..... 341.18
SUN ANGLE ..... 65.5
SPACECRAFT ALTITUDE (KM) ..... 2963.80

PLATE 121

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

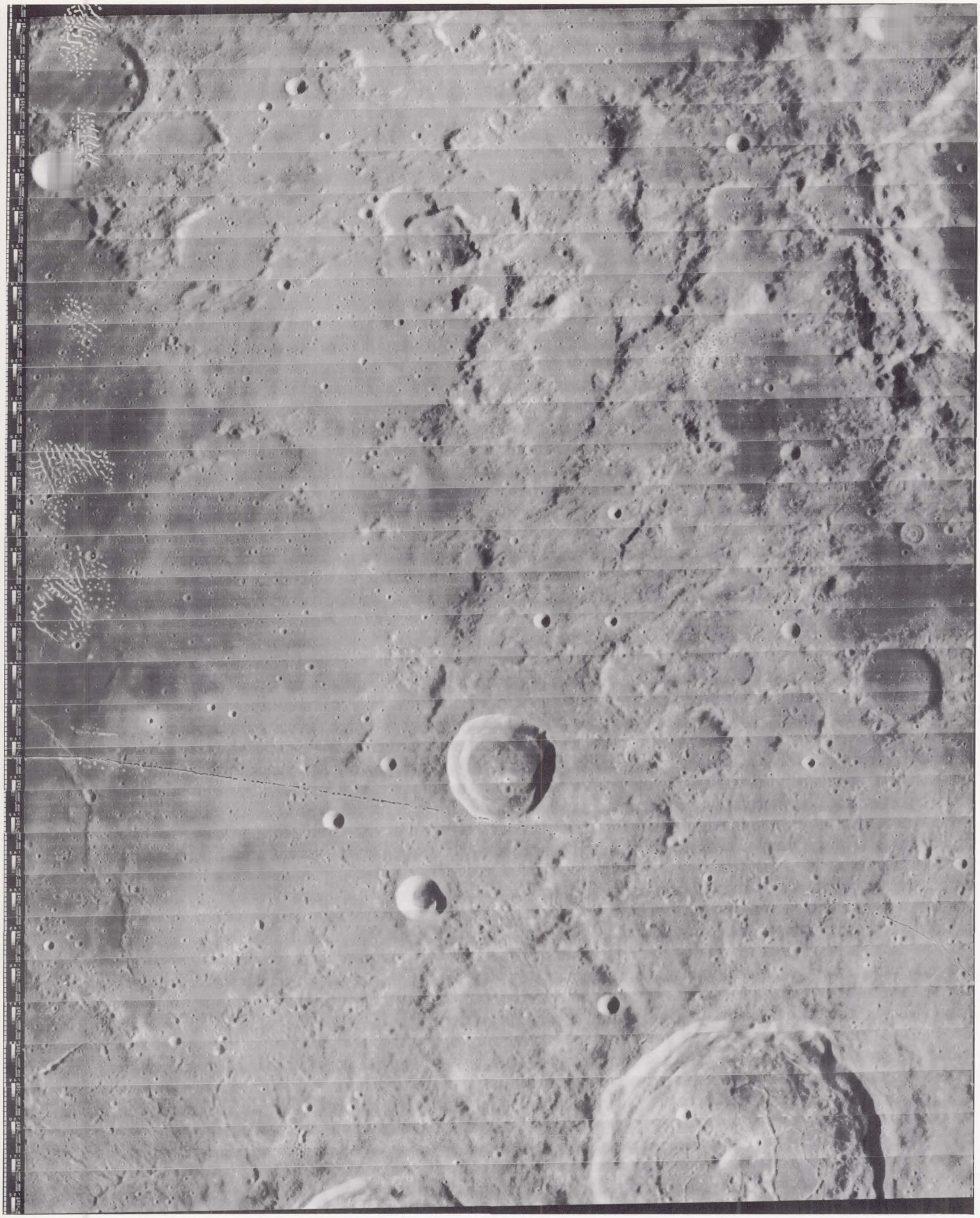


PHOTO NO. IV-79-H3

CENTER COORDINATES ..... LONG. 39.05
LAT. 41.83
NORTH DEVIATION (DEG.) ..... 341.18
SUN ANGLE ..... 65.5
SPACECRAFT ALTITUDE (KM) ..... 2963.78

N

1 CENTIMETER ≈ 12 KILOMETERS

ATLAS ..... C14
HERCULES ..... H15

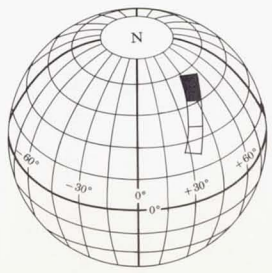
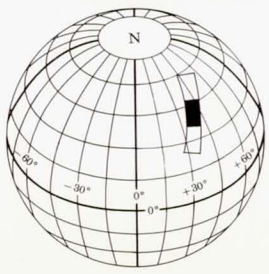



PLATE 122

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| ATLAS | J1 |
| GROVE | B11 |
| HERCULES | E2 |
| MAURY | K13 |

1 CENTIMETER ≈ 12 KILOMETERS




PHOTO NO. IV-79-H2

| | |
|---|---|
| CENTER COORDINATES | LONG. 39.05 |
| | LAT. 41.83 |
| NORTH DEVIATION (DEG.) | 341.18 |
| SUN ANGLE | 65.5 |
| SPACECRAFT ALTITUDE (KM) | 2963.78 |

PLATE 123

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

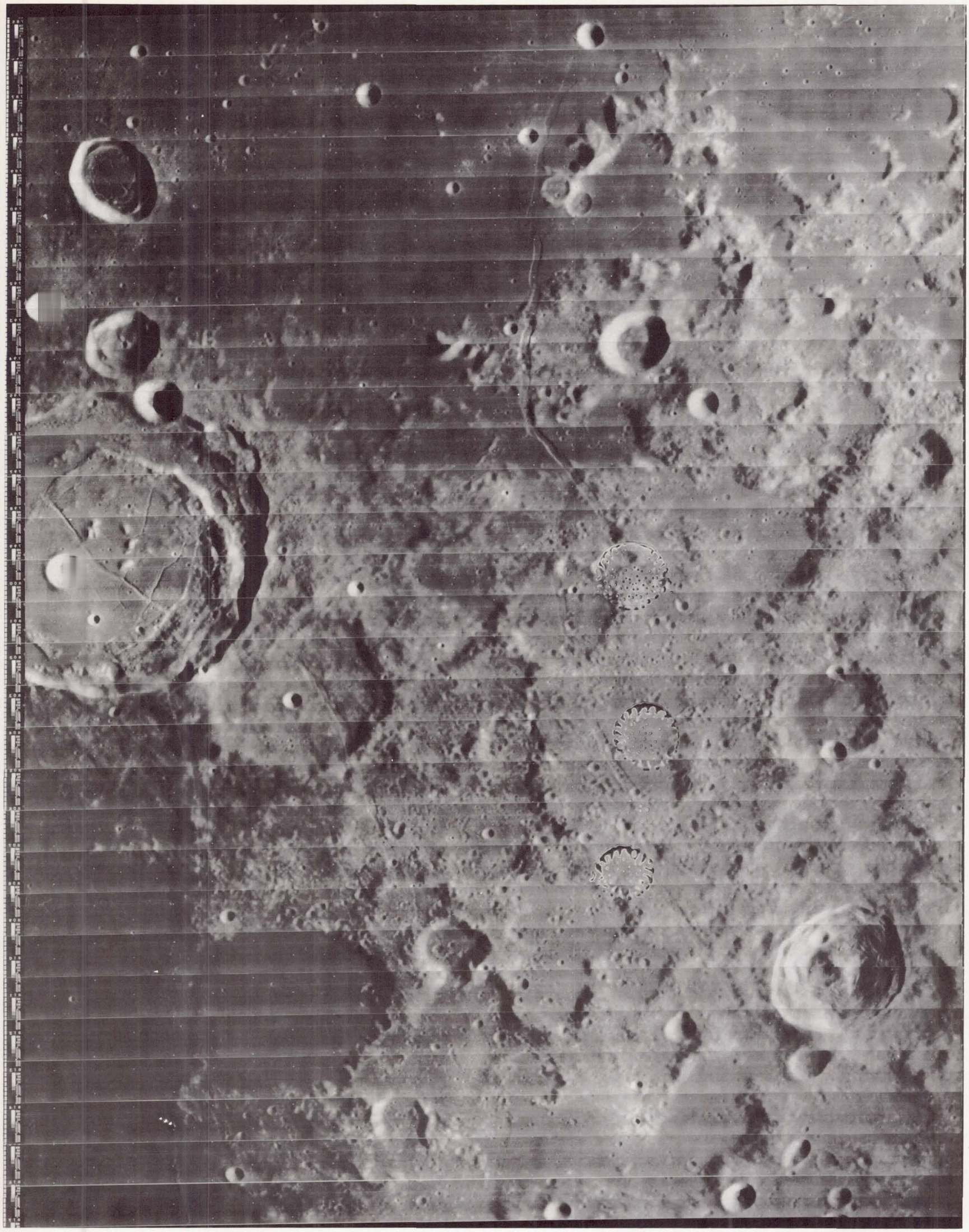


PHOTO NO. IV-79-H1

CENTER COORDINATES ..... LONG. 39.05
LAT. 41.83
NORTH DEVIATION (DEG.) ..... 341.18
SUN ANGLE ..... 65.5
SPACECRAFT ALTITUDE (KM) ..... 2963.78

N

1 CENTIMETER ≈12 KILOMETERS

POSIDONIUS .... L7
ROMER ..... B12

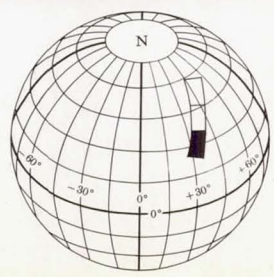
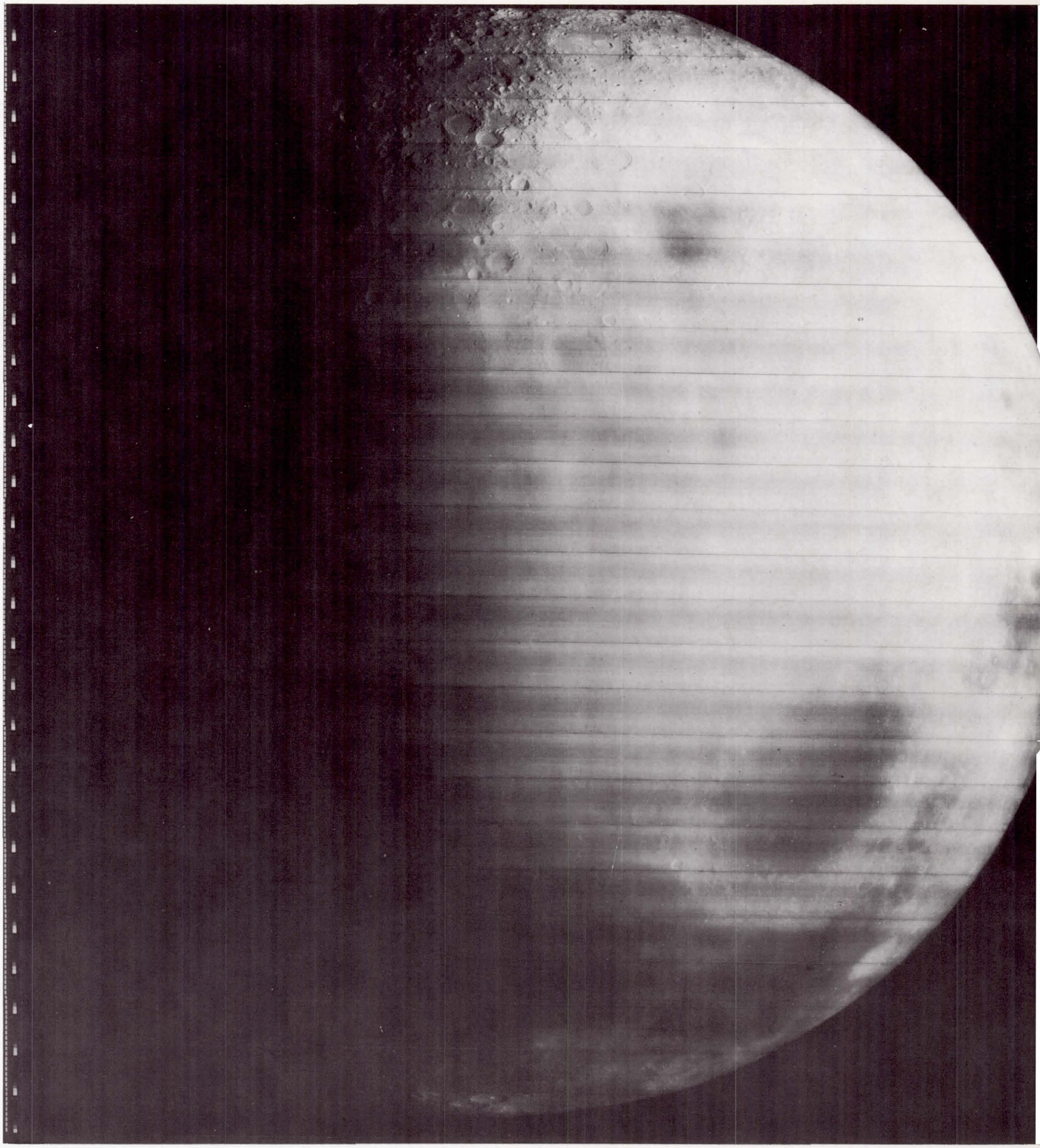
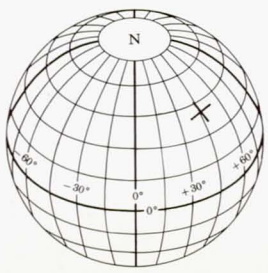



PLATE 124

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... K9
MARE FECUNDITATIS ..... J12
MARE TRANQUILLITATIS ... G11

1 CENTIMETER≈94 KILOMETERS




PHOTO NO. IV-74-M

CENTER COORDINATES ..... LONG. 45.57
LAT. 40.70
NORTH DEVIATION (DEG.) ..... 340.30
SUN ANGLE ..... 64.8
SPACECRAFT ALTITUDE (KM) ..... 2969.83

PLATE 125

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-74-H3

CENTER COORDINATES ..... LONG. 45.57
LAT. 40.70
NORTH DEVIATION (DEG.) ..... 340.30
SUN ANGLE ..... 64.8
SPACECRAFT ALTITUDE (KM) ..... 2969.81

N

1 CENTIMETER ≈ 12 KILOMETERS

ATLAS ..... J16
DE LA RUE ..... J1
ENDYMION ..... C4

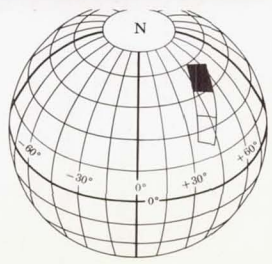
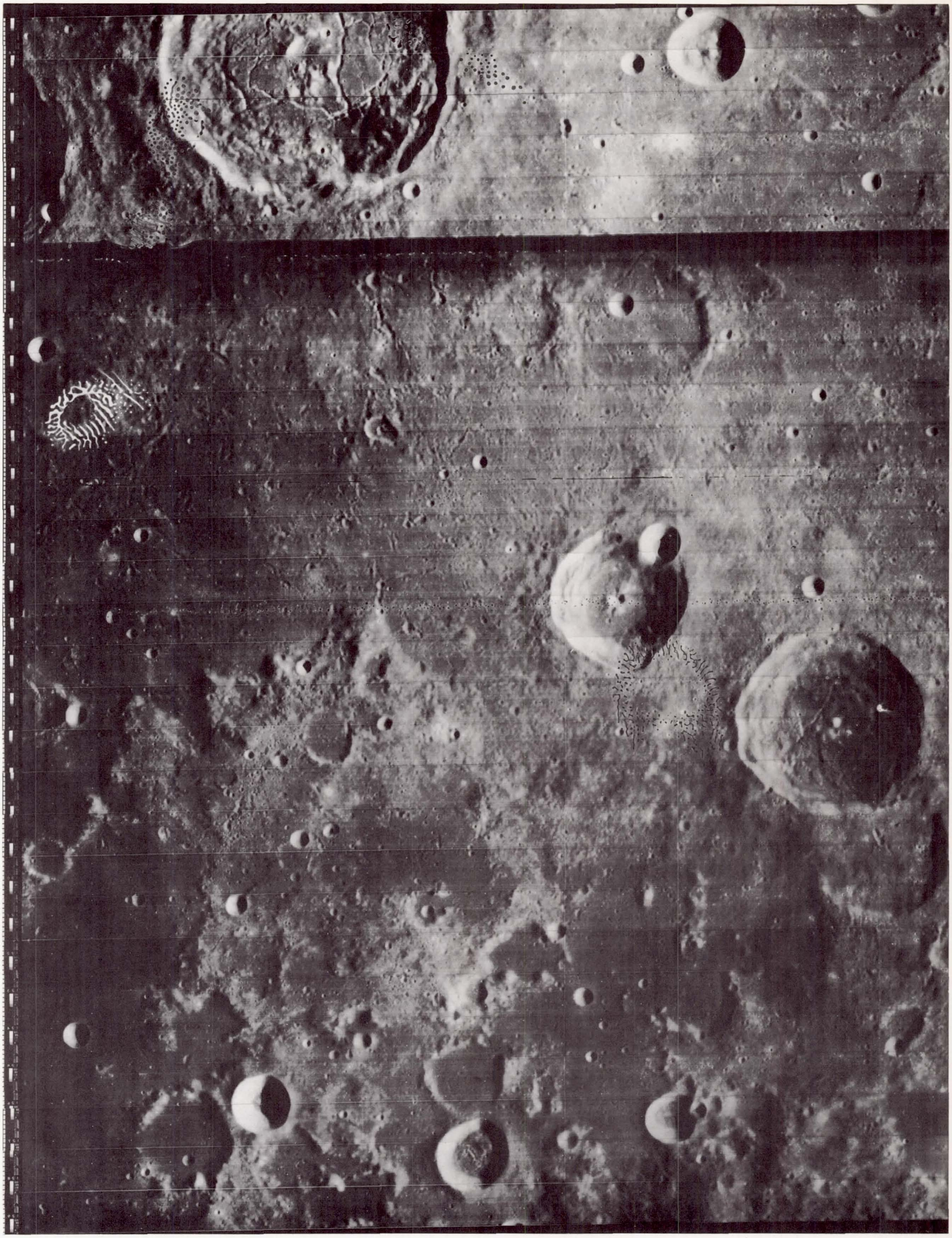
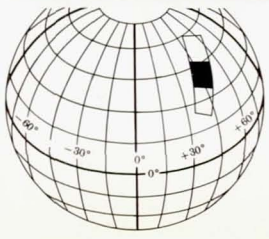



PLATE 126




ATLAS ..... D1
CEPHEUS ..... H8
CHEVALLIER ..... L1
FRANKLIN ..... L10
HERCULES ..... A2
MAURY ..... D14
OERSTED ..... J5

1 CENTIMETER ≈12 KILOMETERS




PHOTO NO. IV-74- H2

CENTER COORDINATES ..... LONG. 45.57
LAT. 40.70
NORTH DEVIATION (DEG.) ..... 340.30
SUN ANGLE ..... 64.8
SPACECRAFT ALTITUDE (KM) .... 2969.81

PLATE 127

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-74- H1

CENTER COORDINATES ..... LONG. 45.57
LAT. 40.70
NORTH DEVIATION (DEG.) ..... 340.30
SUN ANGLE ..... 64.8
SPACECRAFT ALTITUDE (KM) ..... 2969.81

N

1 CENTIMETER ≈ 12 KILOMETERS

G. BOND ..... L6
HALL ..... L4
KIRCHOFF ..... H7
NEWCOMB ..... B6
ROMER ..... J14

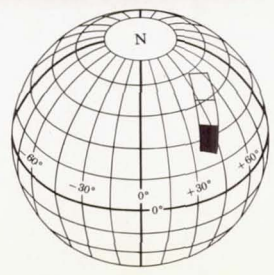
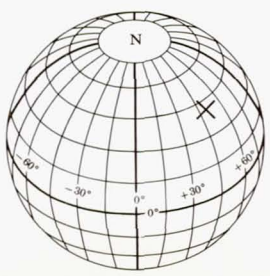



PLATE 128

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 94 KILOMETERS




PHOTO NO. IV-67-M

CENTER COORDINATES ..... LONG. 51.64
LAT. 41.81
NORTH DEVIATION (DEG.) ..... 341.09
SUN ANGLE ..... 65.3
SPACECRAFT ALTITUDE (KM) .... 2975.57

PLATE 129

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

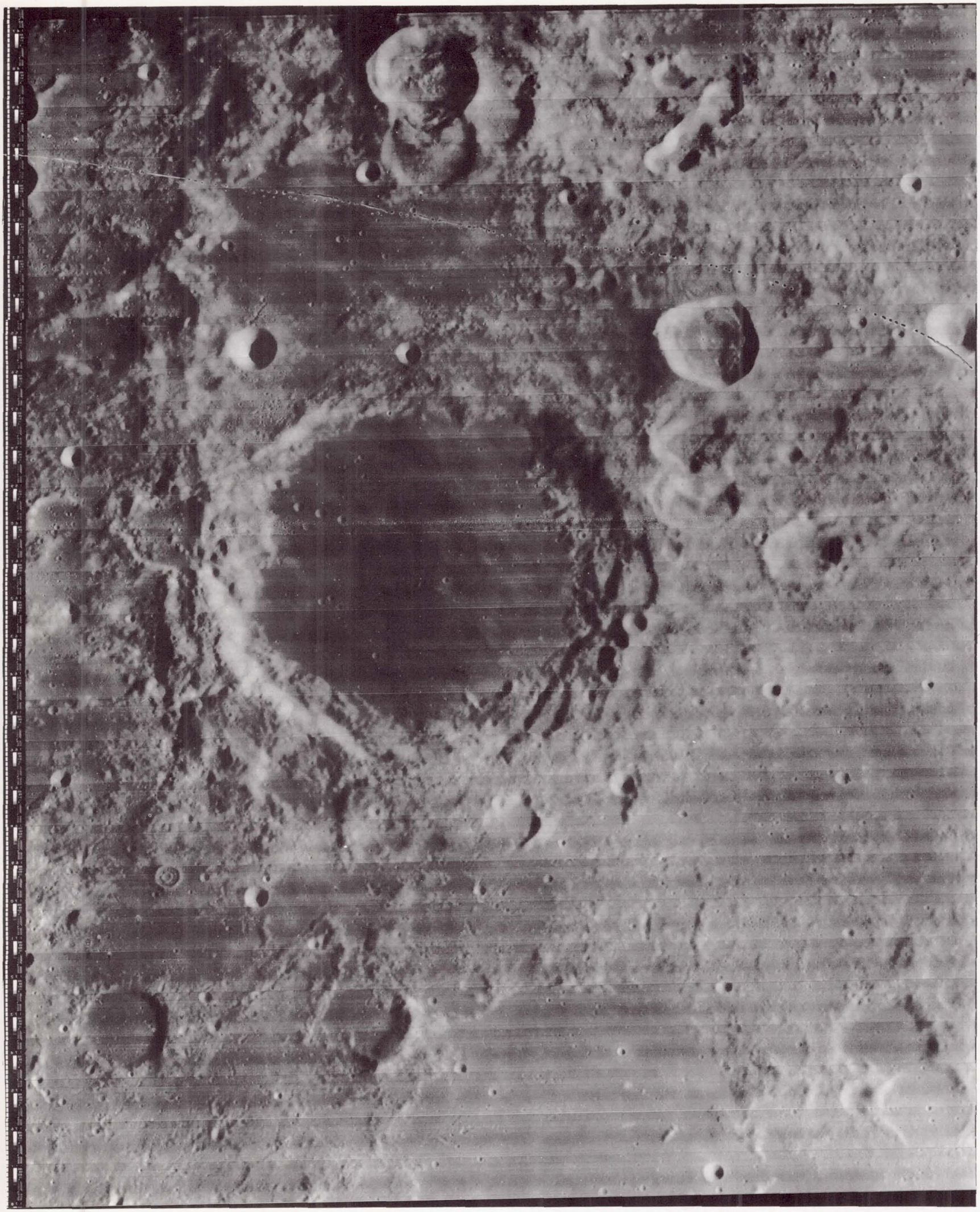


PHOTO NO. IV-67-H3

CENTER COORDINATES ..... LONG. 51.64
LAT. -41.80
NORTH DEVIATION (DEG.) ..... 341.09
SUN ANGLE ..... 65.3
SPACECRAFT ALTITUDE (KM) .... 2975.55

N

1 CENTIMETER ≈12 KILOMETERS

ENDYMION ....G7

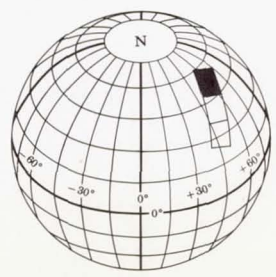
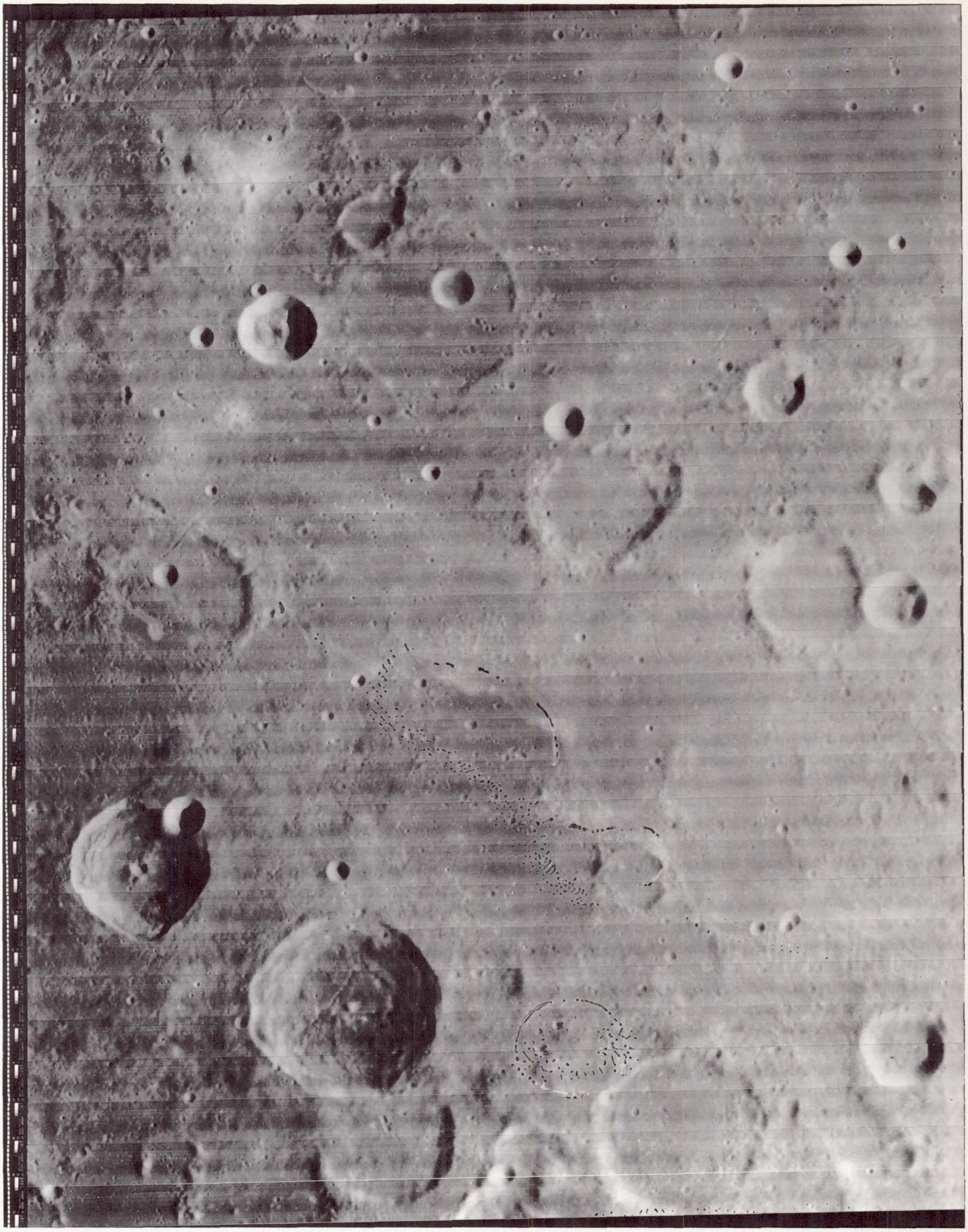
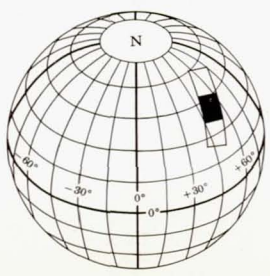



PLATE 130






BERZELIUS ..... J14
CEPHEUS ..... B11
CHEVALLIER .... F4
FRANKLIN ..... E13
HOOKE ..... L8
SHUCBURCH ..... H7

1 CENTIMETER ≈ 12 KILOMETERS

PHOTO NO. IV-67-H2

CENTER COORDINATES ..... LONG. 51.64
LAT. . . 41.80
NORTH DEVIATION (DEG.) ..... 341.09
SUN ANGLE ..... 65.3
SPACECRAFT ALTITUDE (KM) .... 2975.55

PLATE 131

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

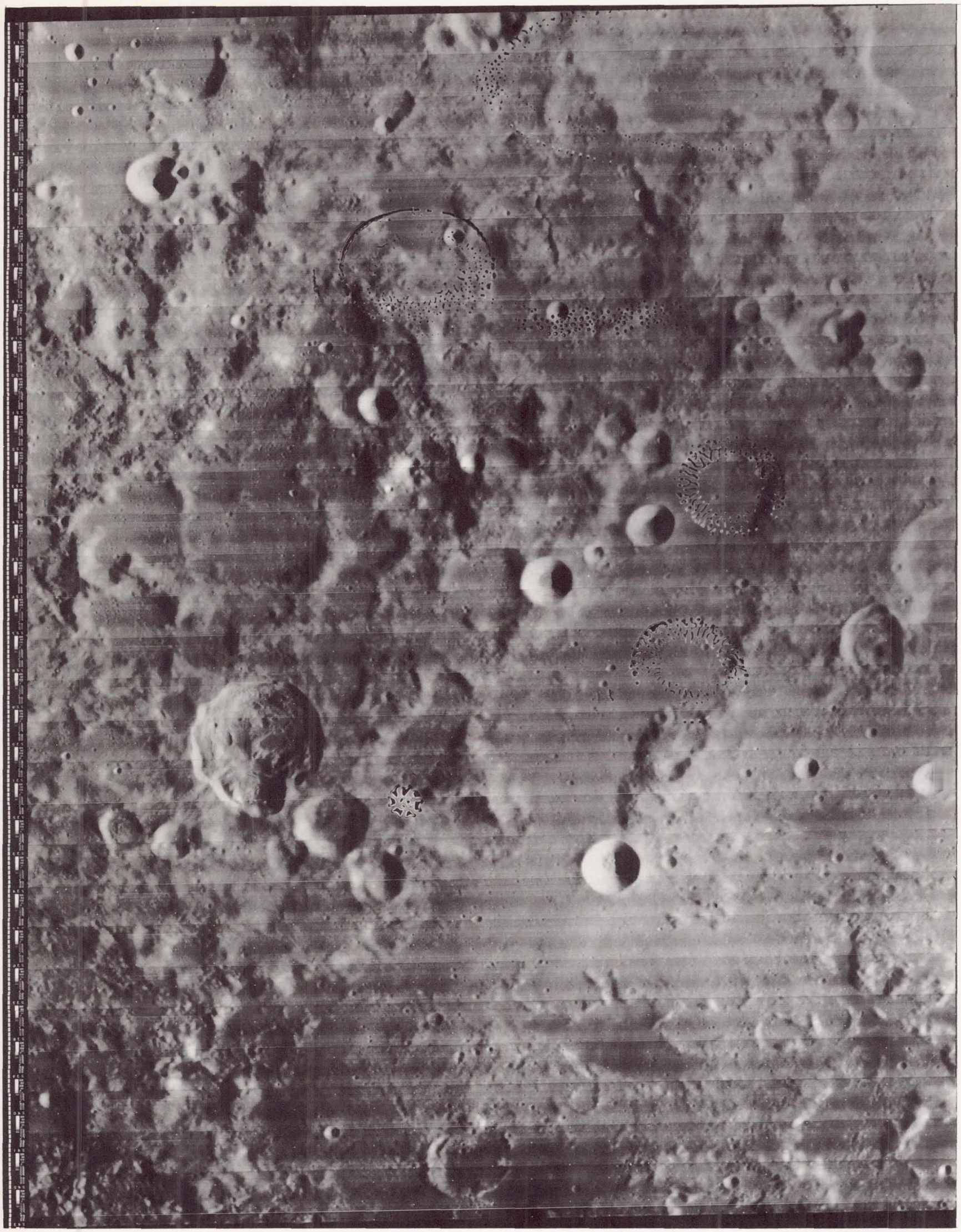


PHOTO NO. IV-67-H1

CENTER COORDINATES ..... LONG. 51.64
LAT. 41.80
NORTH DEVIATION (DEG.) ..... 341.09
SUN ANGLE ..... 65.3
SPACECRAFT ALTITUDE (KM) .... 2975.55

N

1 CENTIMETER ≈ 12 KILOMETERS

GEMINUS ..... A1
NEWCOMB .... J10

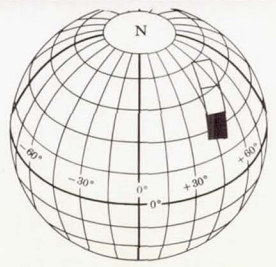
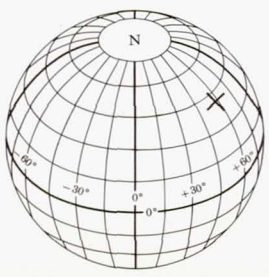



PLATE 132

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER≈94 KILOMETERS




PHOTO NO. IV-62-M

CENTER COORDINATES ..... LONG. 59.16
LAT. 42.38
NORTH DEVIATION (DEG.) ..... 341.21
SUN ANGLE ..... 64.6
SPACECRAFT ALTITUDE (KM) ..... 2979.34

PLATE 133

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

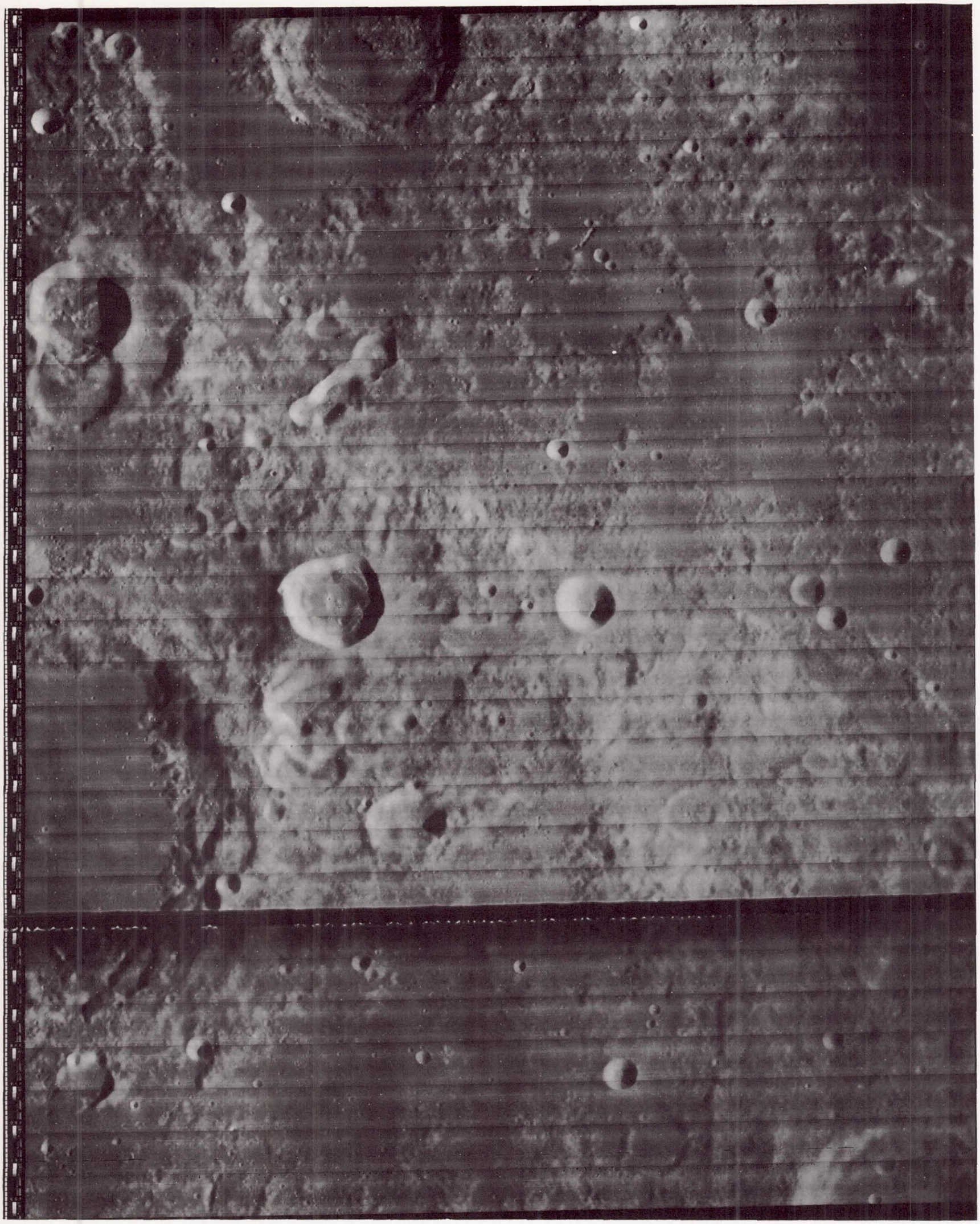


PHOTO NO. IV-62-H3

CENTER COORDINATES ..... LONG. 59.16
LAT. 42.38
NORTH DEVIATION (DEG.) .....341.21
SUN ANGLE .....64.6
SPACECRAFT ALTITUDE (KM) .....2979.32

N

1 CENTIMETER ≈ 12 KILOMETERS

ENDYMION .... M10

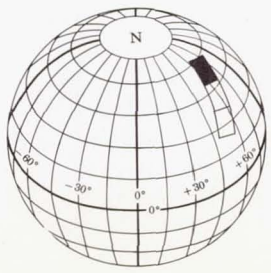
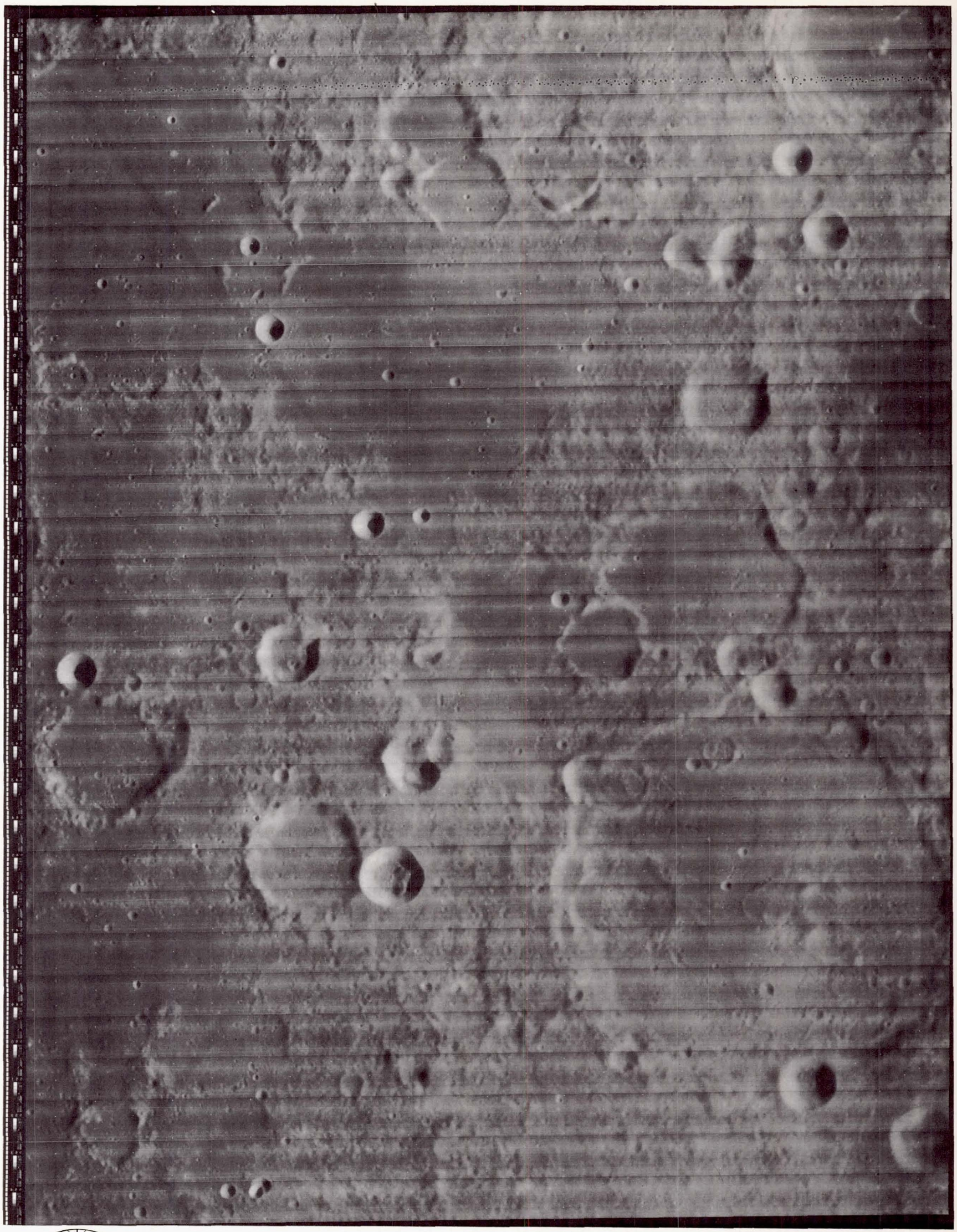
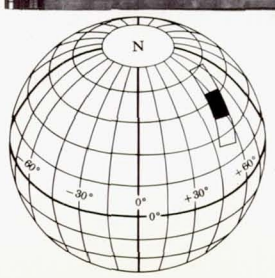



PLATE 134






HOOKE ..... D11
MESSALA ..... K12
SHUCKBURG .... B10

1 CENTIMETER ≈12 KILOMETERS

PHOTO NO. IV-62-H2

CENTER COORDINATES ..... LONG. 59.16
LAT. 42.38
NORTH DEVIATION (DEG.) ..... 341.21
SUN ANGLE ..... 64.6
SPACECRAFT ALTITUDE (KM) ..... 2979.32

PLATE 135

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

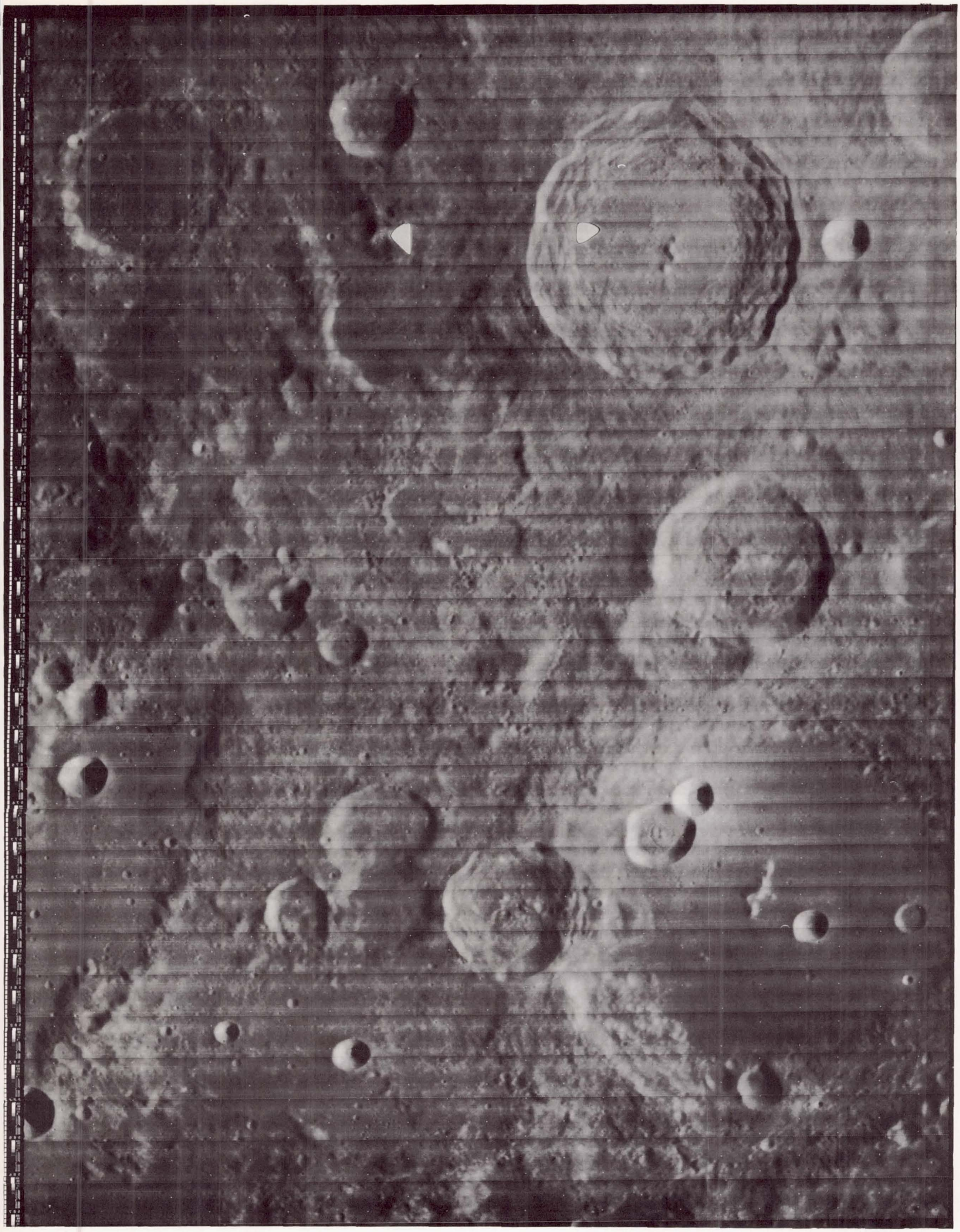


PHOTO NO. IV-62-H1

CENTER COORDINATES ..... LONG. 59.16
LAT. 42.38
NORTH DEVIATION (DEG.) ..... 341.21
SUN ANGLE ..... 64.6
SPACECRAFT ALTITUDE (KM) ..... 2979.32

N

1 CENTIMETER ≈ 12.5 KILOMETERS

BURCKHARDT.... C7
CLEOMEDES ..... C12
DEBES ..... H11
GEMINUS ..... D3
TRALLES ..... F12

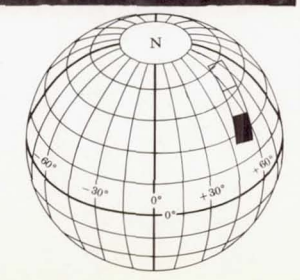
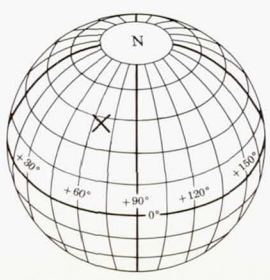



PLATE 136

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 94 KILOMETERS




PHOTO NO. IV-55-M

CENTER COORDINATES ..... LONG. 65.57
LAT. 42.08
NORTH DEVIATION (DEG.) ..... 340.99
SUN ANGLE ..... 64.3
SPACECRAFT ALTITUDE (KM) .... 2982.12

PLATE 137

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

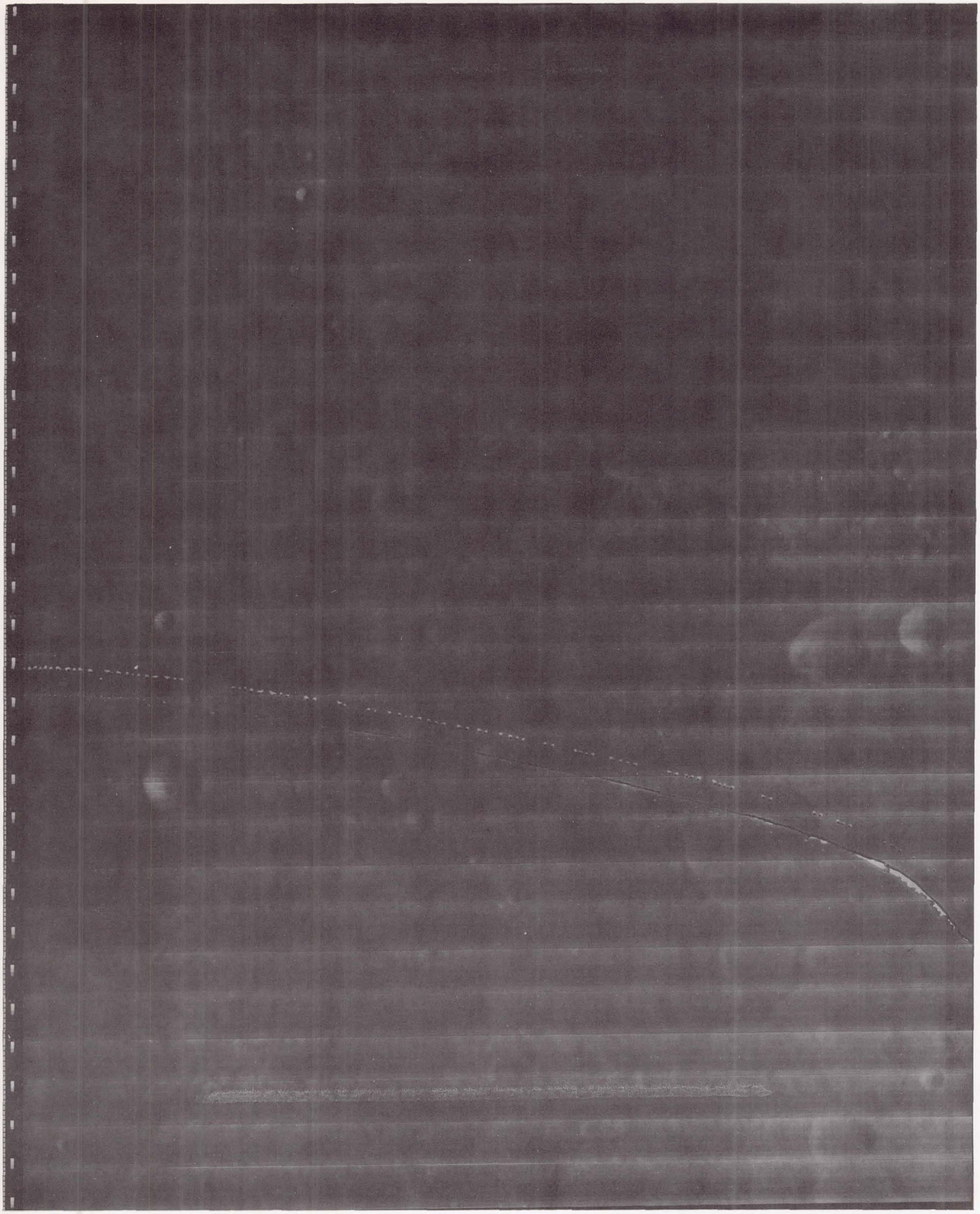


PHOTO NO. IV-55-H3

CENTER COORDINATES ..... LONG. 65.57
LAT. . 42.07
NORTH DEVIATION (DEG.) ..... 341.00
SUN ANGLE ..... 64.3
SPACECRAFT ALTITUDE (KM) .... 2982.10

N

1 CENTIMETER ≈12 KILOMETERS

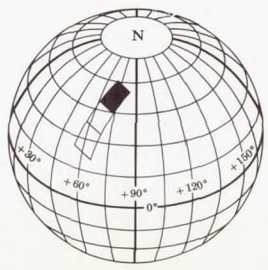
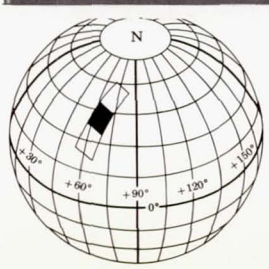



PLATE 138

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




1 CENTIMETER ≈ 12 KILOMETERS




PHOTO NO. IV-55-H2

CENTER COORDINATES ..... LONG. 65.57
LAT. . 42.07
NORTH DEVIATION (DEG.) ..... 341.00
SUN ANGLE ..... 64.3
SPACECRAFT ALTITUDE (KM) .... 2982.10

PLATE 139

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

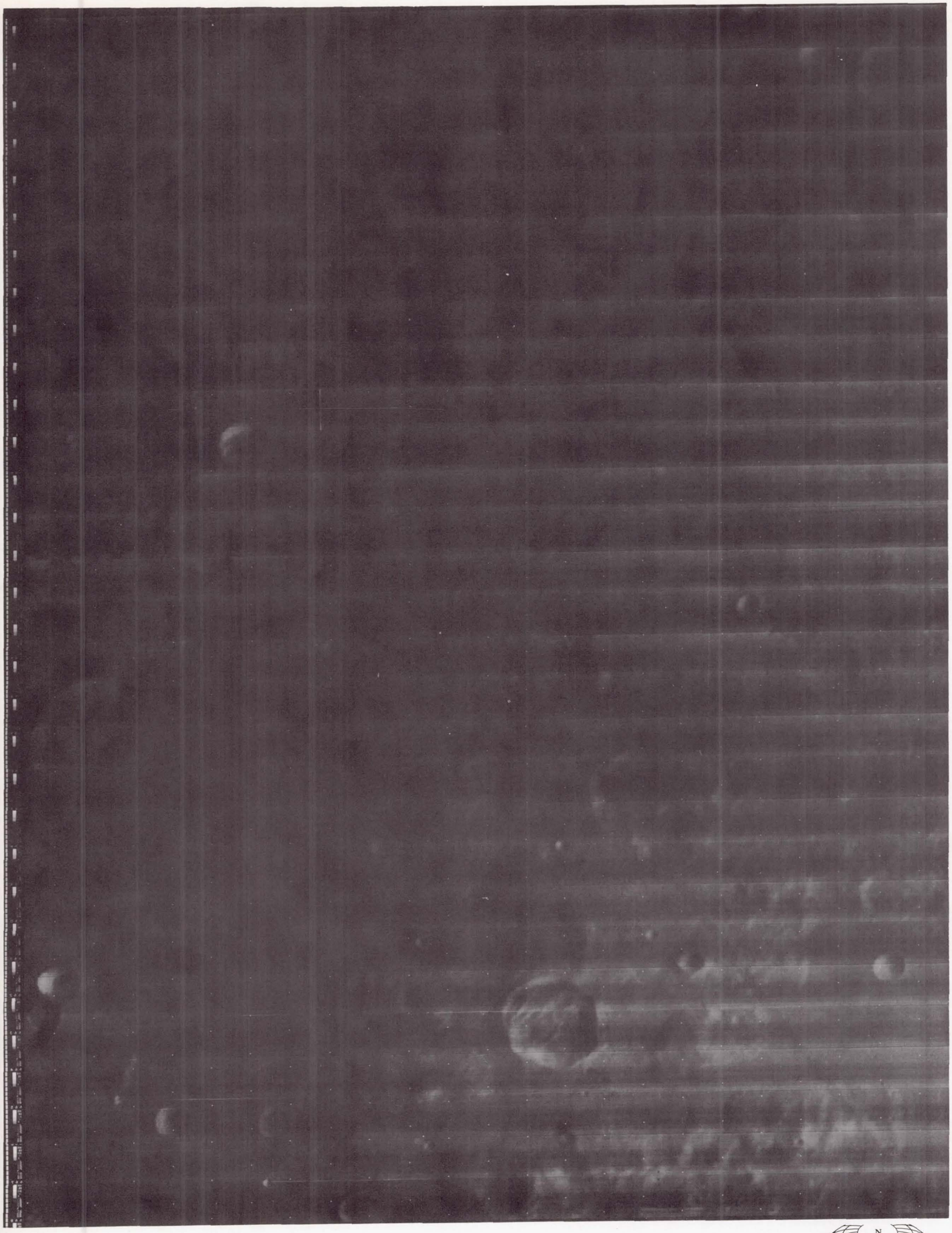


PHOTO NO. IV-55-H1

*CENTER COORDINATES* ..... *LONG.* 65.57
LAT. . 42.07
NORTH DEVIATION (DEG.) ..... 341.00
SUN ANGLE ..... 64.3
SPACECRAFT ALTITUDE (KM) .... 2982.10

N

1 CENTIMETER ≈ 12 KILOMETERS

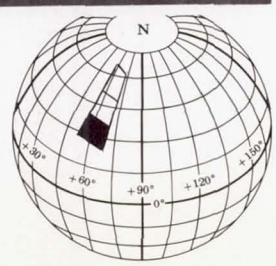
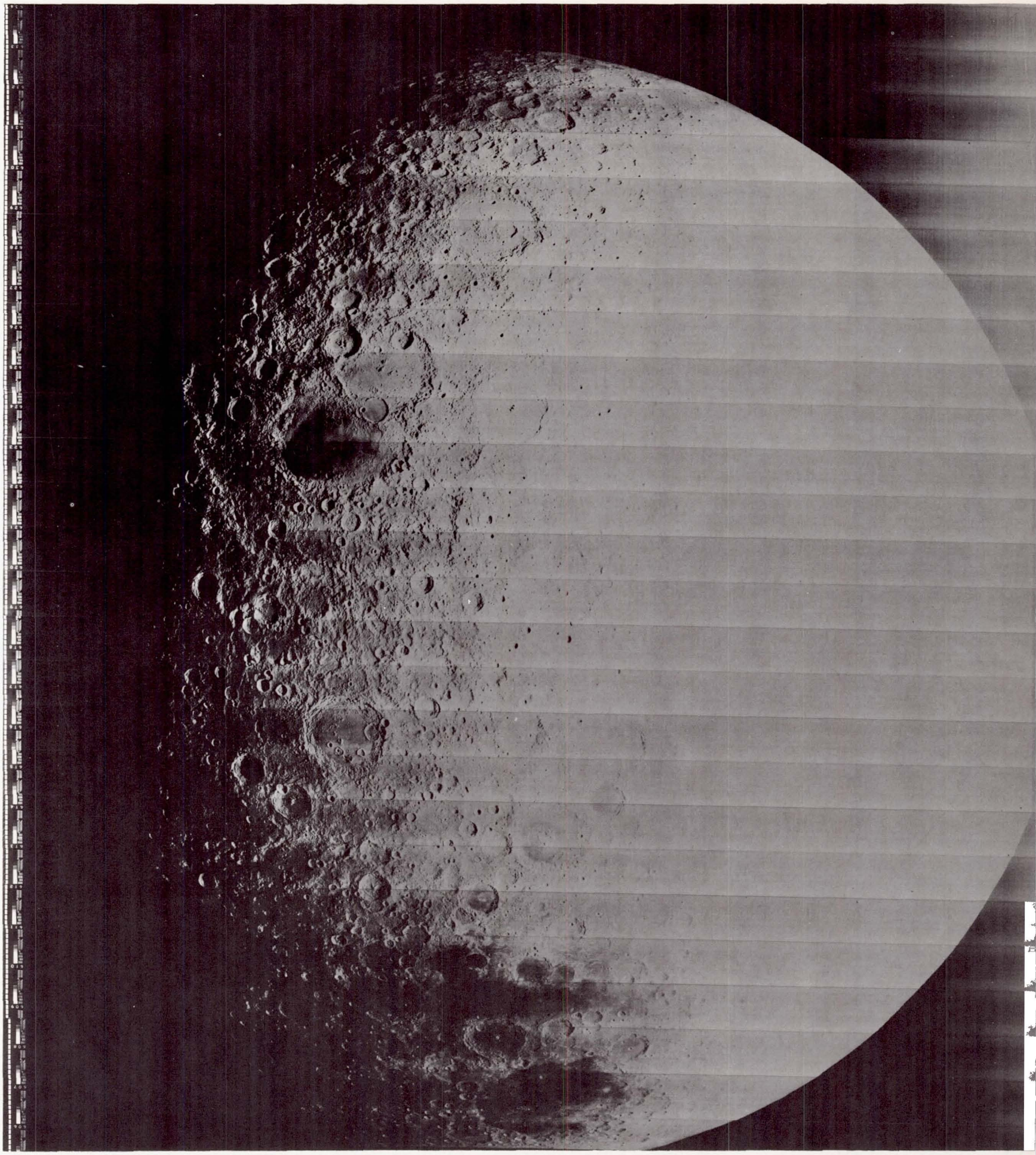
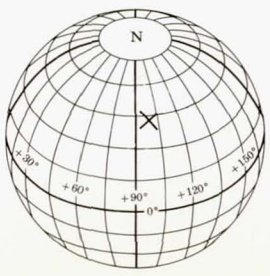



PLATE 140

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... G13
MARE HUMBOLDTIANUM ..... D6

1 CENTIMETER ≈ 94 KILOMETERS

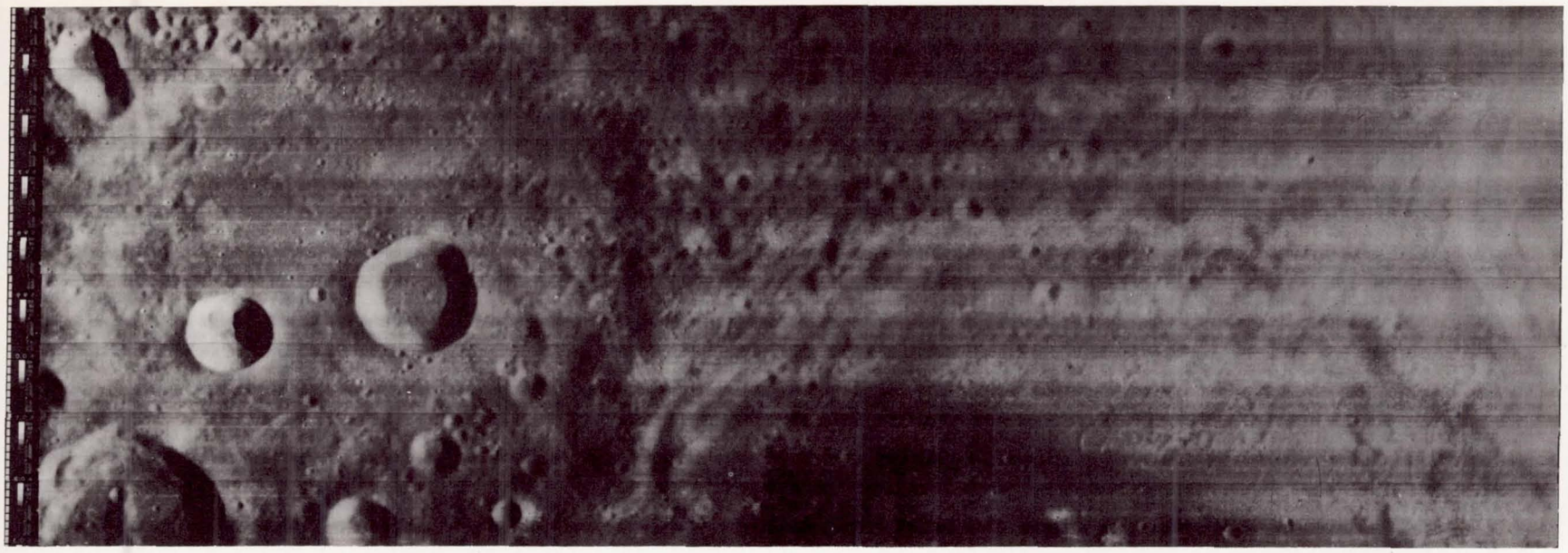
N

PHOTO NO. IV-23-M

CENTER COORDINATES ..... LONG. . 99.0
LAT. . . 43.72
NORTH DEVIATION (DEG.) ..... 339.43
SUN ANGLE ..... 63.2
SPACECRAFT ALTITUDE (KM) .... 2982.69

PLATE 141

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-24-H1

CENTER COORDINATES ..... LONG. 99.09
LAT. .44.08
NORTH DEVIATION (DEG.) ..... 339.34
SUN ANGLE ..... 63.3
SPACECRAFT ALTITUDE (KM) .... 2984.43

N

1 CENTIMETER ≈12 KILOMETERS

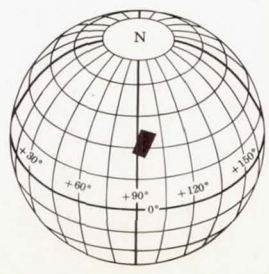
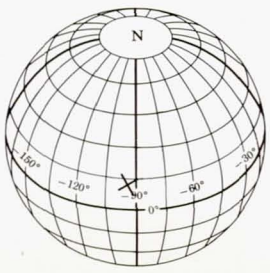



PLATE 142

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 85 KILOMETERS

N

PHOTO NO. IV-196-M

| | | |
|---|---|---|
| CENTER COORDINATES | LONG | −94.86 |
| | LAT. | 12.86 |
| NORTH DEVIATION (DEG.) | | 353.59 |
| SUN ANGLE | | 75.0 |
| SPACECRAFT ALTITUDE (KM) | | 2675.56 |

PLATE 143

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

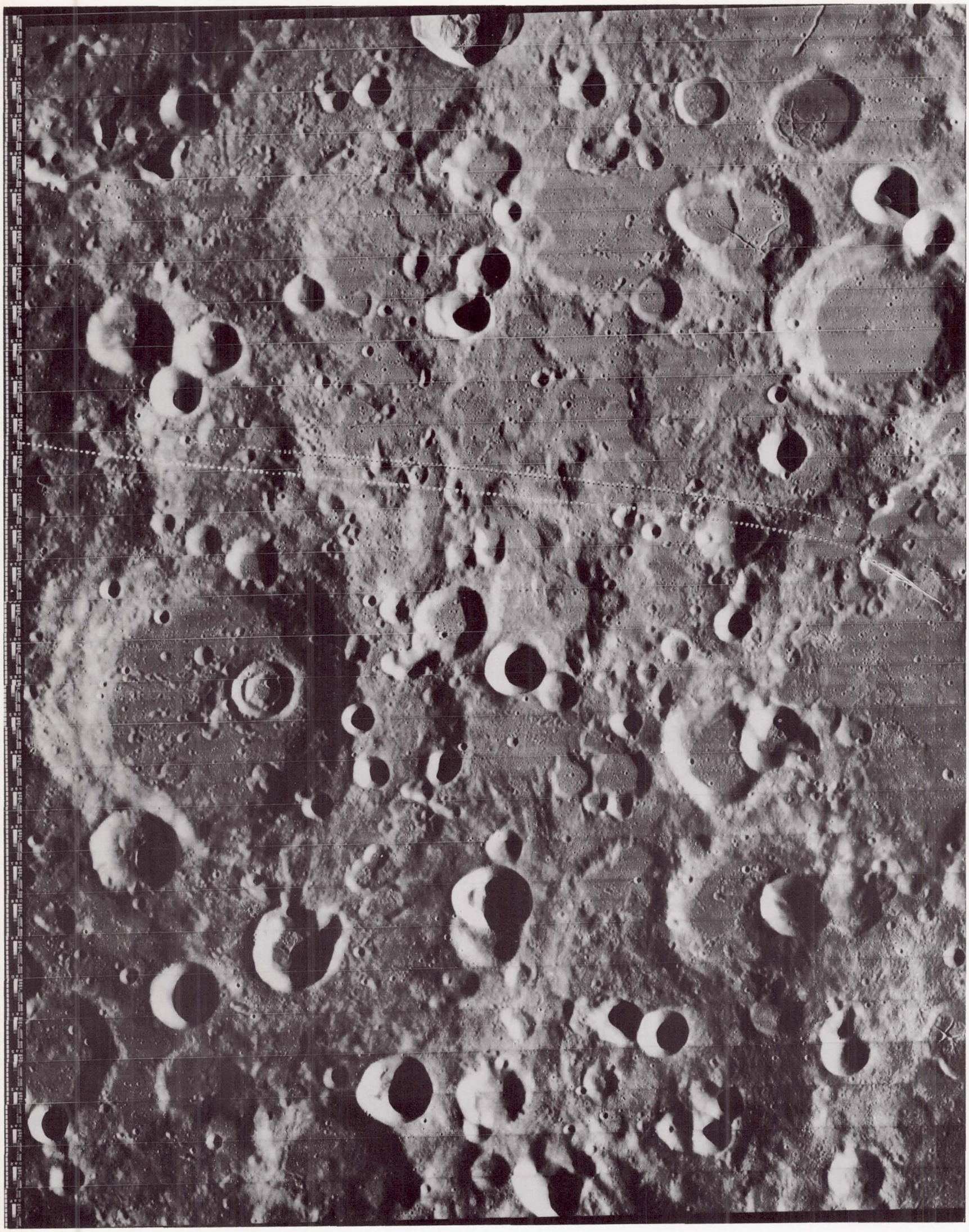


PHOTO NO. IV-196-H3

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | —94.86 |
| | LAT. | 12.85 |
| NORTH DEVIATION (DEG.) | | 353.59 |
| SUN ANGLE | | 75.0 |
| SPACECRAFT ALTITUDE (KM) | | 2675.56 |

N

1 CENTIMETER ≈ 11 KILOMETERS

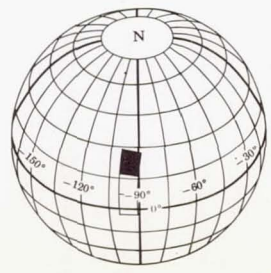
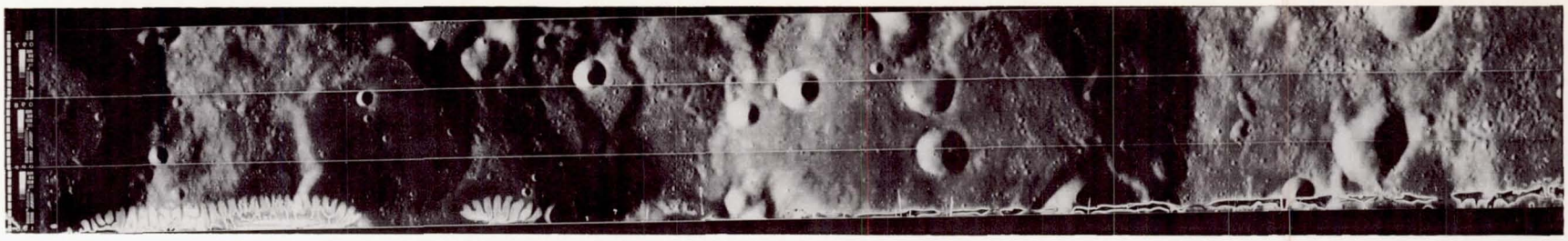
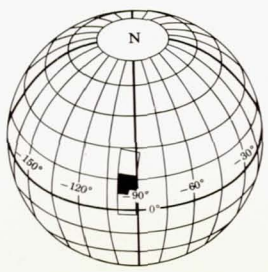



PLATE 144

A • B • C • D • E • F • G • H • J • K • L • M



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




1 CENTIMETER≈ 11 KILOMETERS

N

PHOTO NO. IV-196-H2

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | −94.86 |
| LAT. | 12.85 |
| NORTH DEVIATION (DEG.) ..... | 353.59 |
| SUN ANGLE ..... | 75.0 |
| SPACECRAFT ALTITUDE (KM) ..... | 2675.56 |

PLATE 145

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME

PHOTO NO. IV-196-H1

CENTER COORDINATES ..... LONG—94.86
LAT. 12.85
NORTH DEVIATION (DEG.) ..... 353.59
SUN ANGLE ..... 75.0
SPACECRAFT ALTITUDE (KM) ..... 2675.56




1 CENTIMETER ≈ 11 KILOMETERS

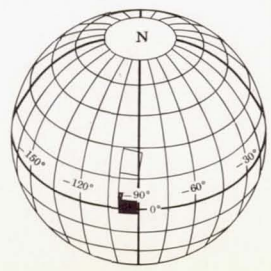
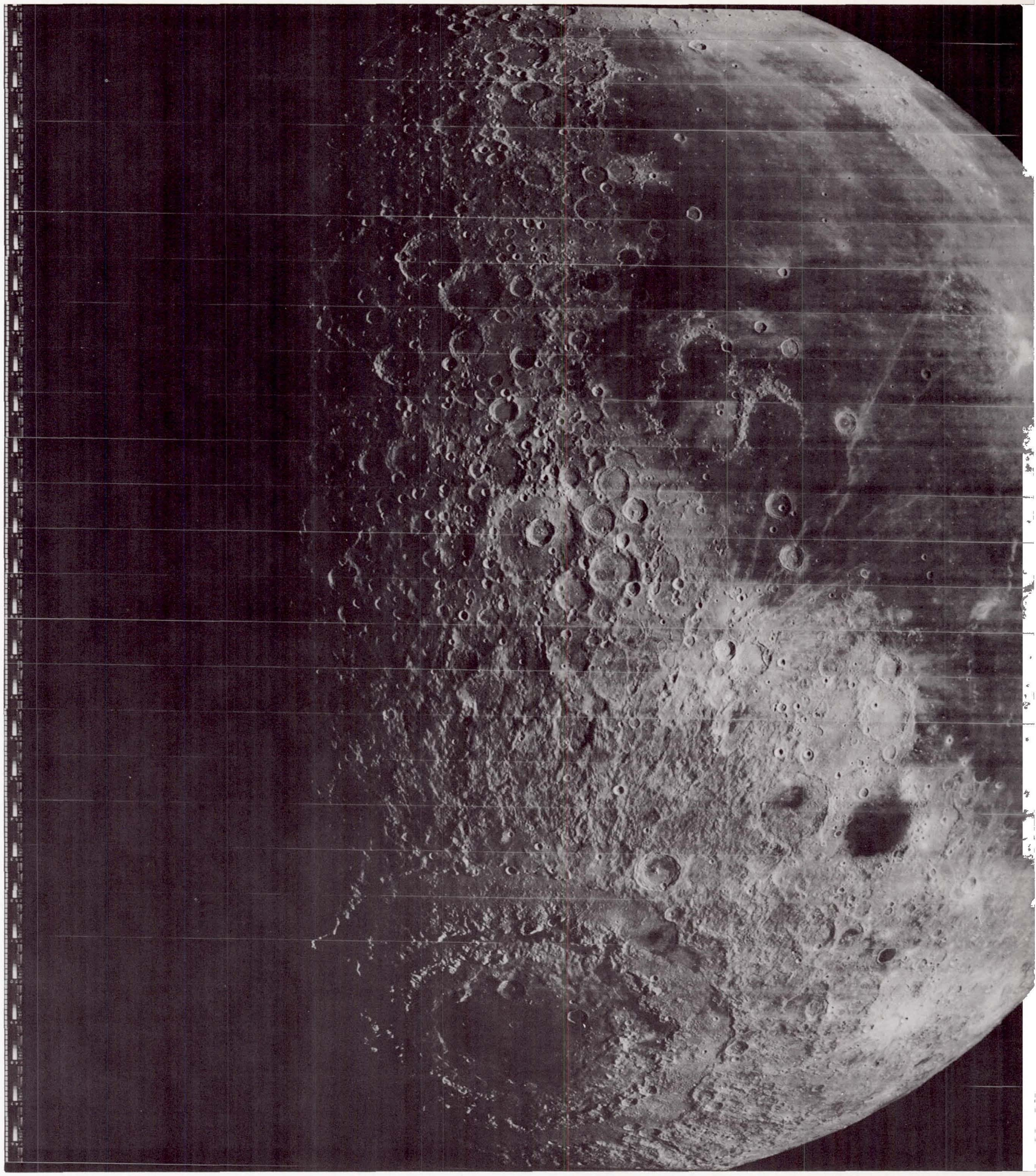
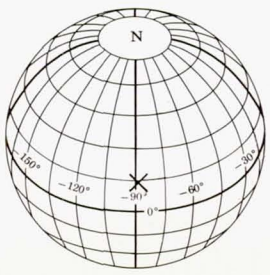



PLATE 146




MARE ORIENTALE ..... G13
OCEANUS PROCELLARUM .... M6
SINUS RORIS ..... L2

1 CENTIMETER ≈ 85 KILOMETERS




PHOTO NO. IV-188-M

CENTER COORDINATES ..... LONG.–89.22
LAT. 13.39
NORTH DEVIATION (DEG.) ..... 354.12
SUN ANGLE ..... 75.5
SPACECRAFT ALTITUDE (KM) ..... 2675.46

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

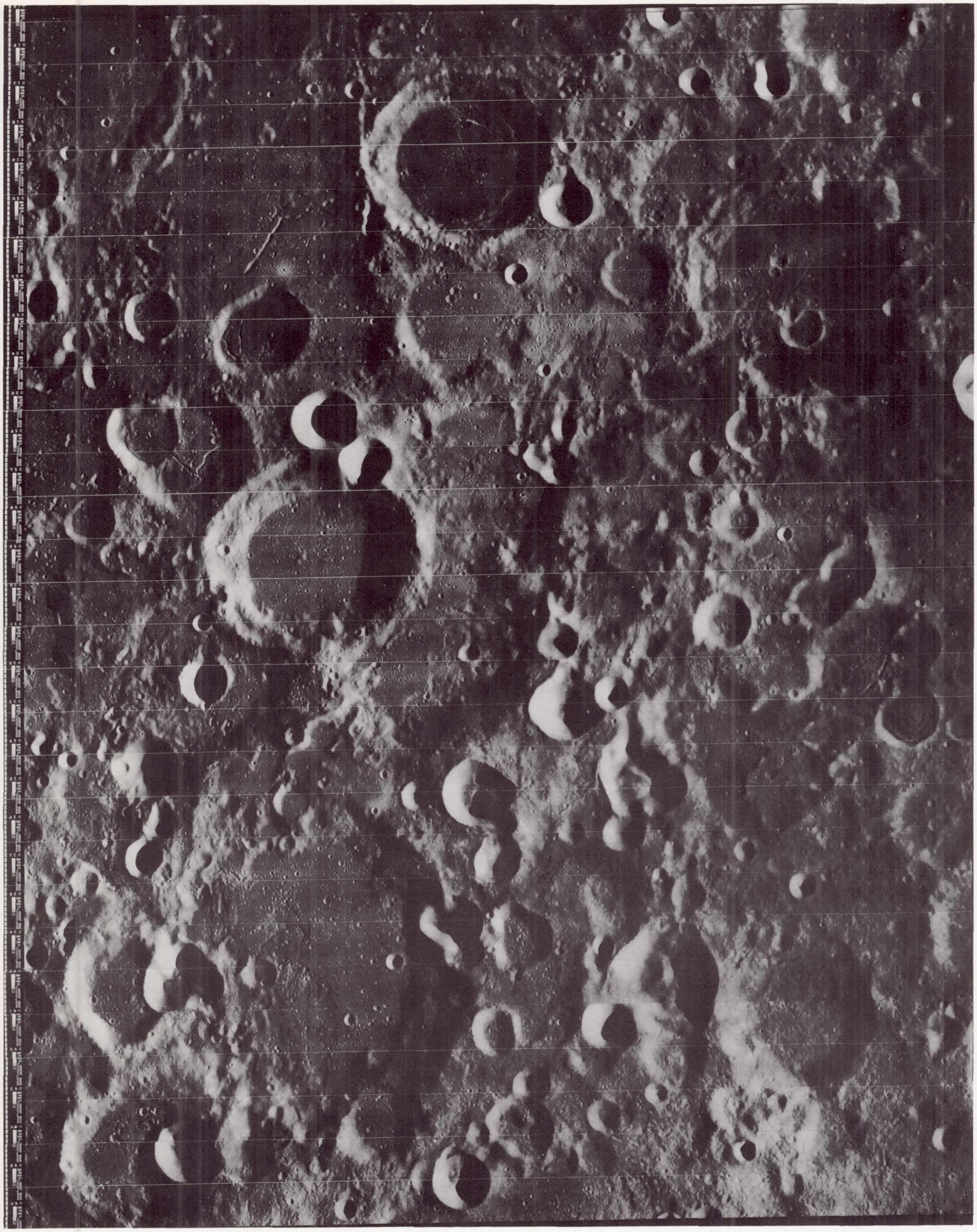


PHOTO NO. IV-188-H3

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −89.22 |
| | LAT. 13.38 |
| NORTH DEVIATION (DEG.) ..... | 354.12 |
| SUN ANGLE ..... | 75.5 |
| SPACECRAFT ALTITUDE (KM) ..... | 2675.45 |

N

1 CENTIMETER ≈ 11 KILOMETERS

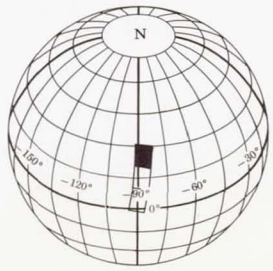
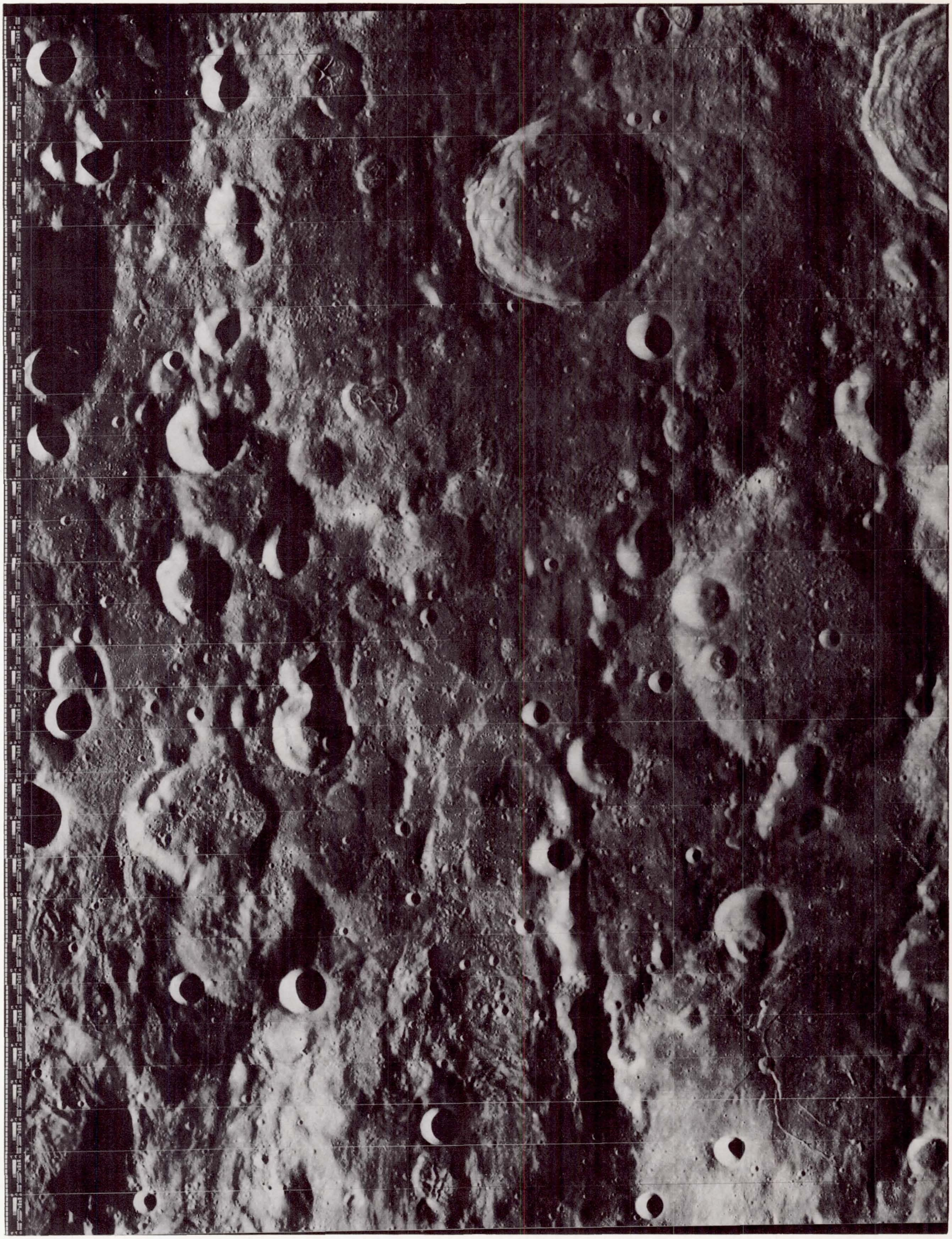
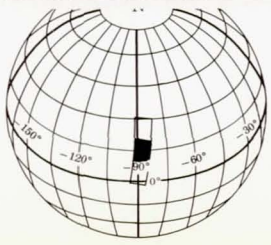



PLATE 148

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15






BALBOA ..... M2
DALTON ..... L8
EINSTEIN ..... G5
VASCO DE GAMA .... K14

1 CENTIMETER ≈ 11 KILOMETERS

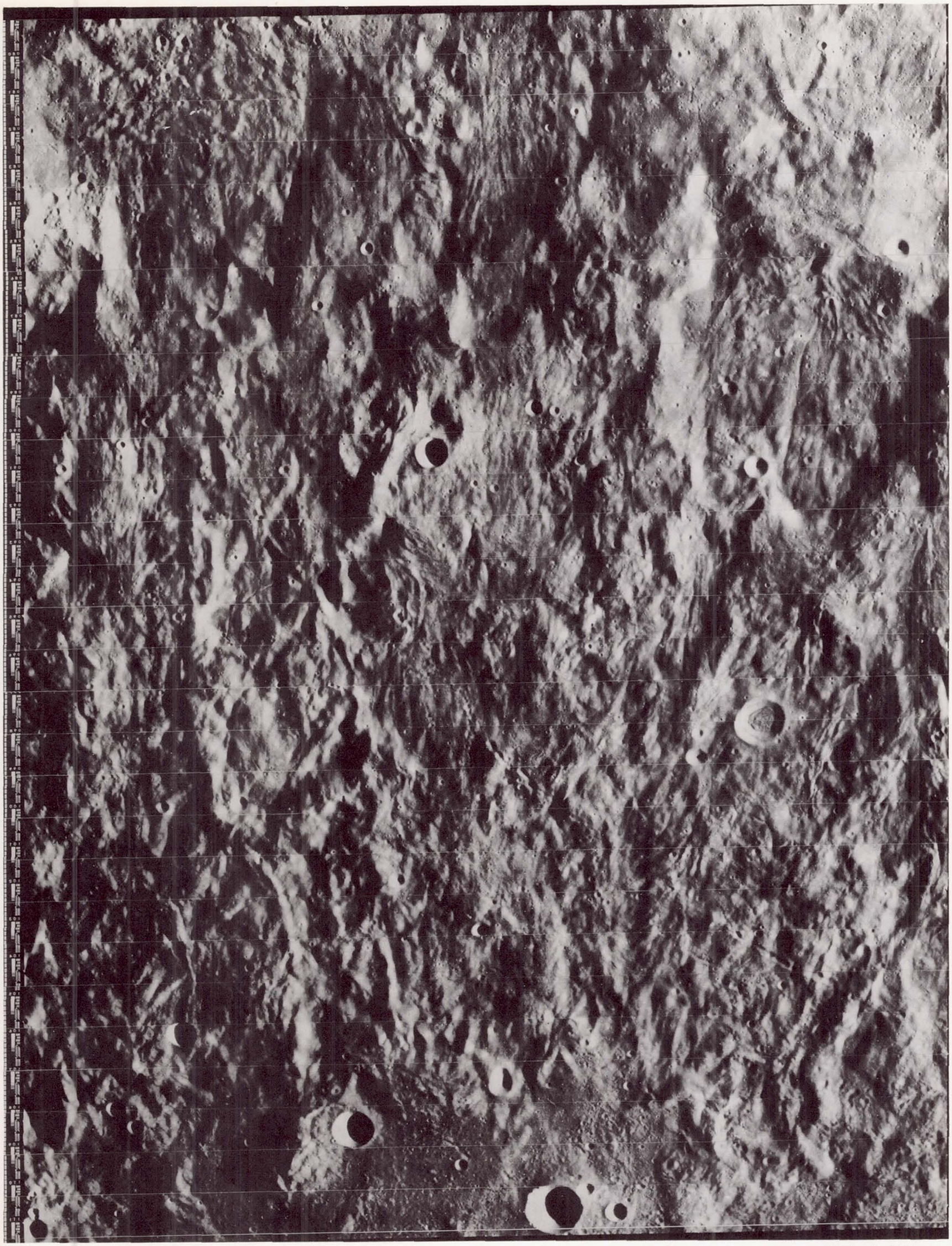
N

PHOTO NO. IV-188-H2

CENTER COORDINATES ..... LONG. – 89.22
LAT. 13.38
NORTH DEVIATION (DEG.) ..... 354.12
SUN ANGLE ..... 75.5
SPACECRAFT ALTITUDE (KM) ..... 2675.45

PLATE 149

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-188-H1

CENTER COORDINATES ..... LONG. −89.22
LAT. 13.38
NORTH DEVIATION (DEG.) ..... 354.12
SUN ANGLE ..... 75.5
SPACECRAFT ALTITUDE (KM) ..... 2675.45

N

1 CENTIMETER ≈ 11 KILOMETERS

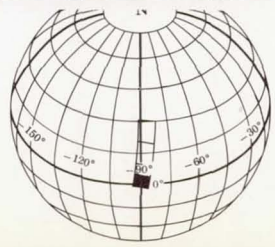
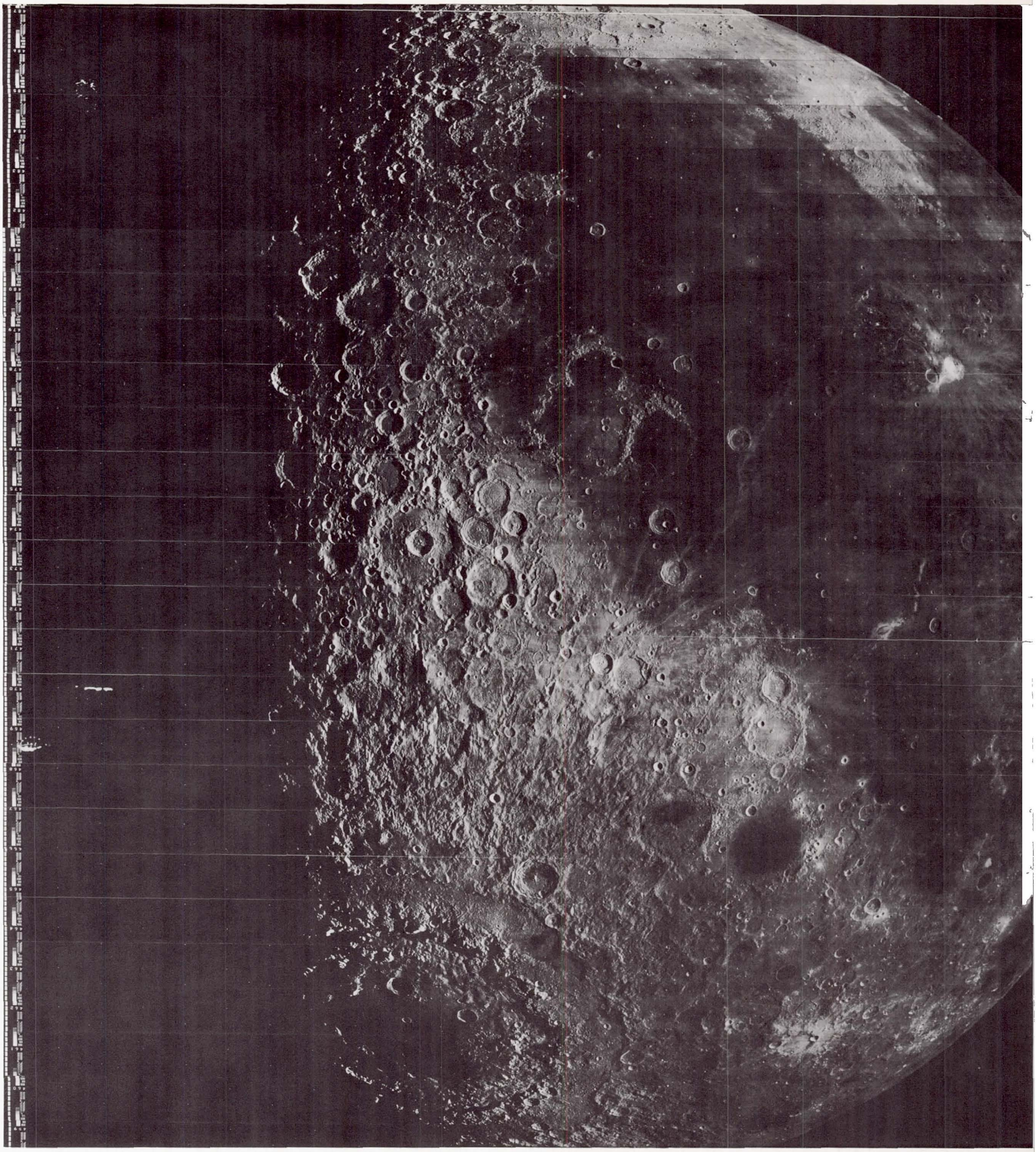
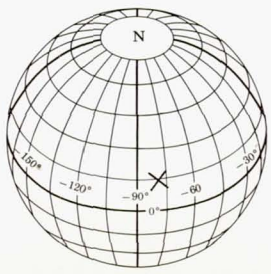



PLATE 150

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... J11
MARE NUBIUM ..... M10
MARE ORIENTALE ..... E13
OCEANUS PROCELLARUM .... J4

1 CENTIMETER ≈ 85 KILOMETERS

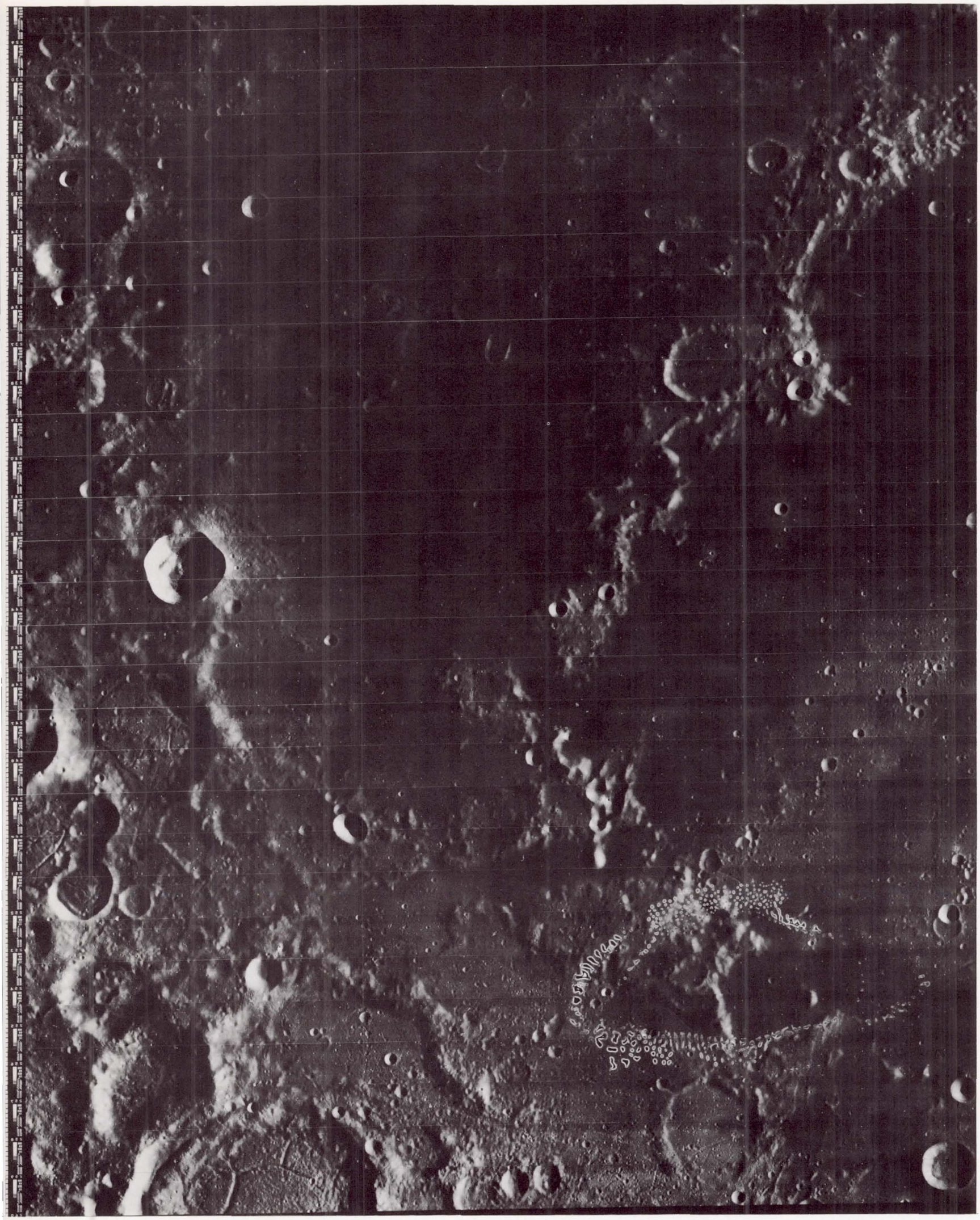
N

PHOTO NO. IV-182-M

CENTER COORDINATES ..... LONG.–81.41
LAT. . . 15.26
NORTH DEVIATION (DEG.) ..... 354.26
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 2674.44

PLATE 151

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-182-H3

CENTER COORDINATES ..... LONG –81.41
LAT. .. 15.25
NORTH DEVIATION (DEG.) ..... 354.26
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 2674.44

N

1 CENTIMETER ≈ 11 KILOMETERS

STRUVE ..... C7

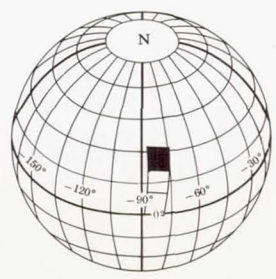
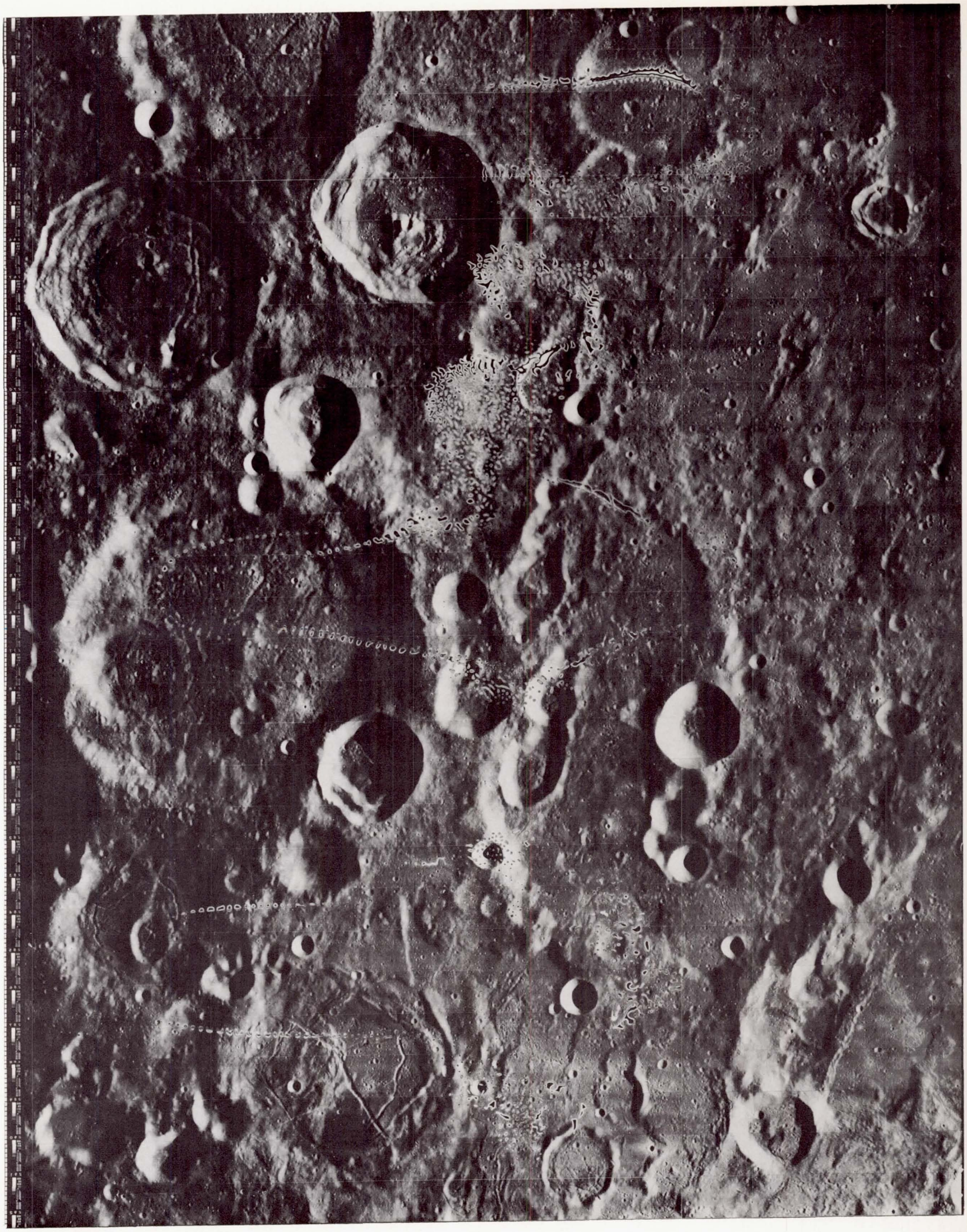
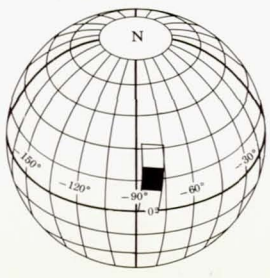



PLATE 152

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






STRUVE .... B7

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-182-H2

CENTER COORDINATES ..... LONG.–81.41
LAT. 15.25
NORTH DEVIATION (DEG.) ..... 354.26
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 2674.44

PLATE 153

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

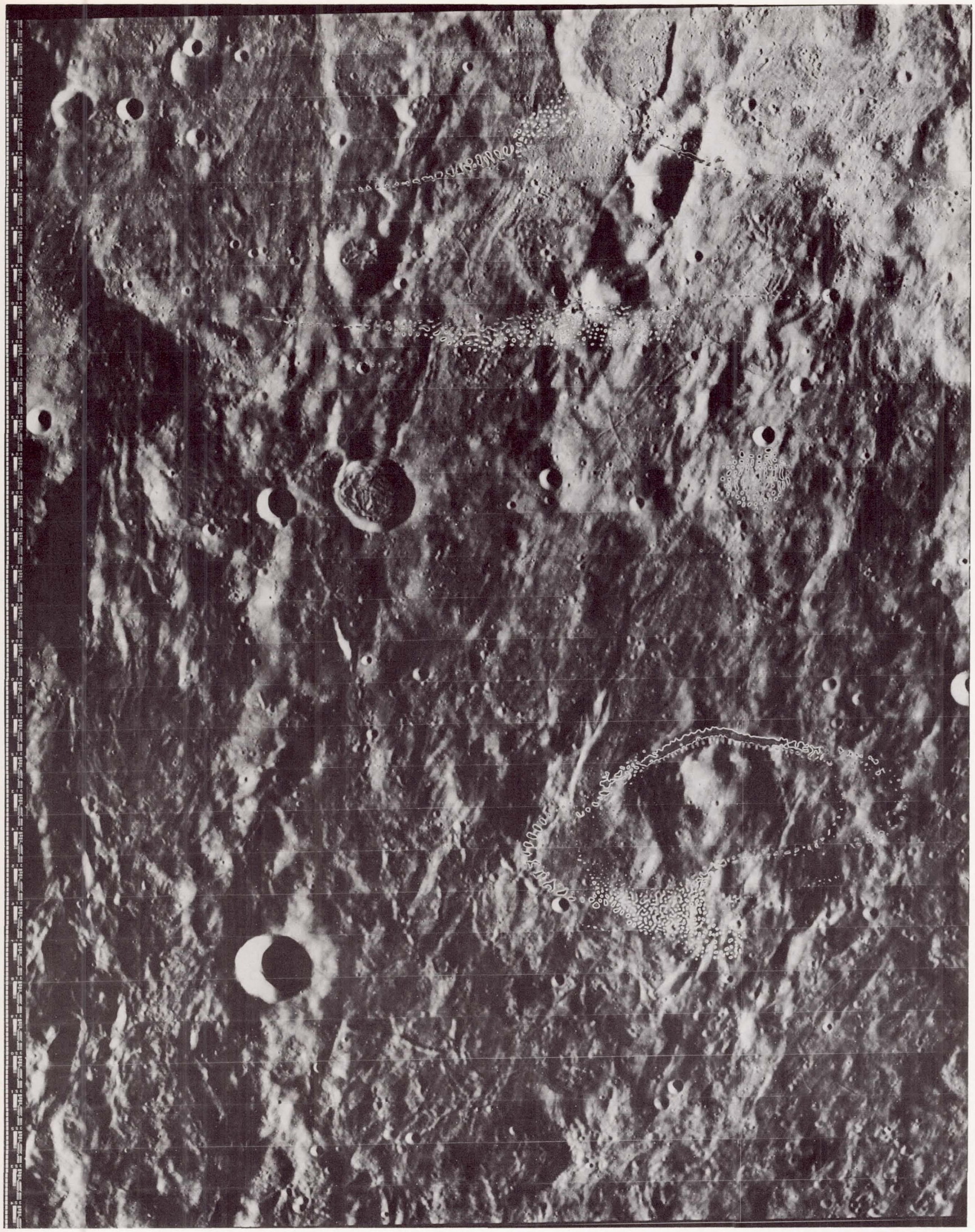


PHOTO NO. IV-182-H1

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −81.41 |
| | LAT. 15.25 |
| NORTH DEVIATION (DEG.) ..... | 354.26 |
| SUN ANGLE ..... | 73.9 |
| SPACECRAFT ALTITUDE (KM) ..... | 2674.44 |

N

1 CENTIMETER ≈ 11 KILOMETERS

BALBOA ..... D1
DALTON .... B4

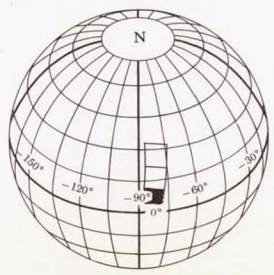
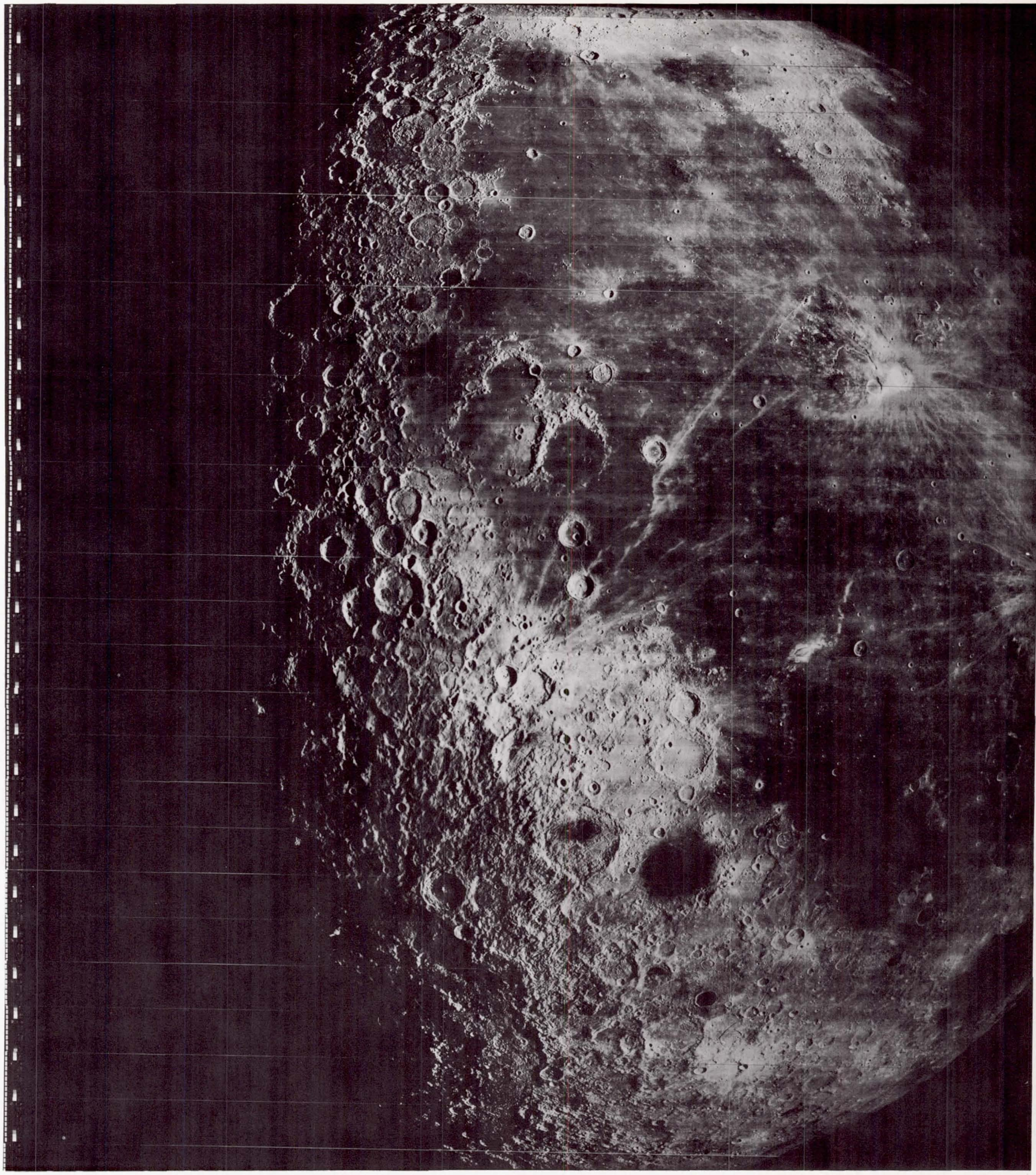
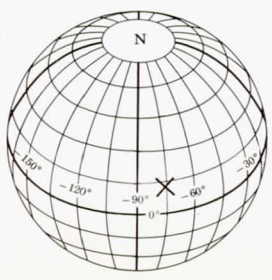



PLATE 154

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... M12
OCEANUS PROCELLARUM ..... K5

1 CENTIMETER ≈ 85 KILOMETERS

N

PHOTO NO. IV-174-M

CENTER COORDINATES ..... LONG. –76.00
LAT. 13.37
NORTH DEVIATION (DEG.) ..... 353.95
SUN ANGLE ..... 74.5
SPACECRAFT ALTITUDE (KM) ..... 2673.10

PLATE 155

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

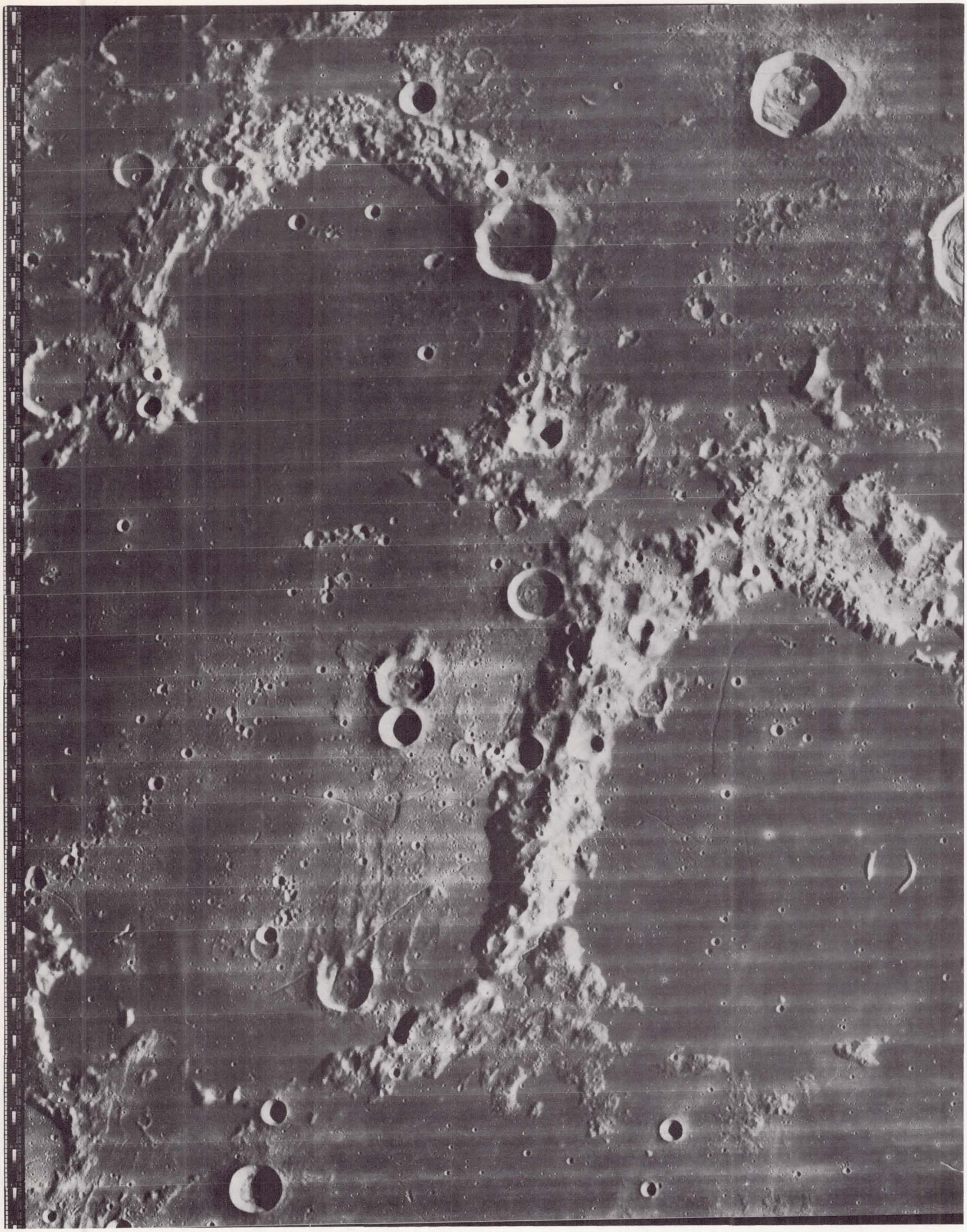


PHOTO NO. IV-174-H3

CENTER COORDINATES ..... LONG. −76.00
LAT. 13.37
NORTH DEVIATION (DEG.) ..... 353.95
SUN ANGLE ..... 74.5
SPACECRAFT ALTITUDE (KM) ..... 2673.10

N

CENTIMETER ≈ 11 KILOMETERS

BRIGGS ..... A4
EDDINGTON .... C11
RUSSELL ..... H4
STRUVE ..... K9

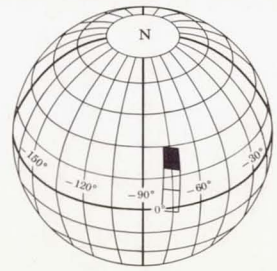
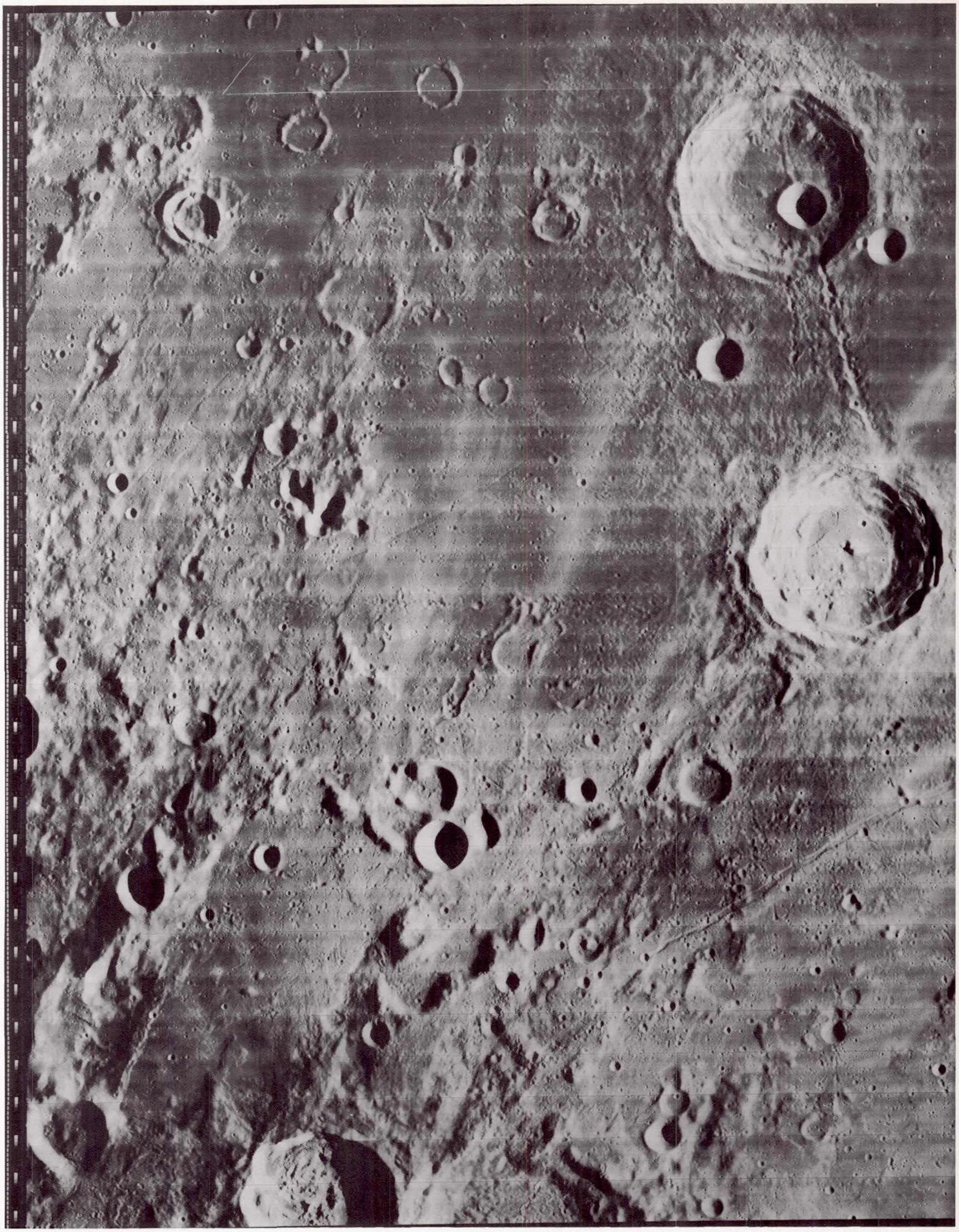
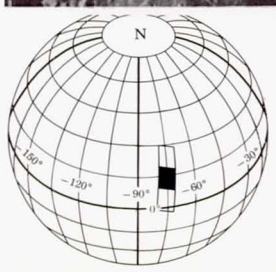



PLATE 156

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CARDANUS ..... L7
KRAFFT ..... K3

1 CENTIMETER ≈ 11 KILOMETERS

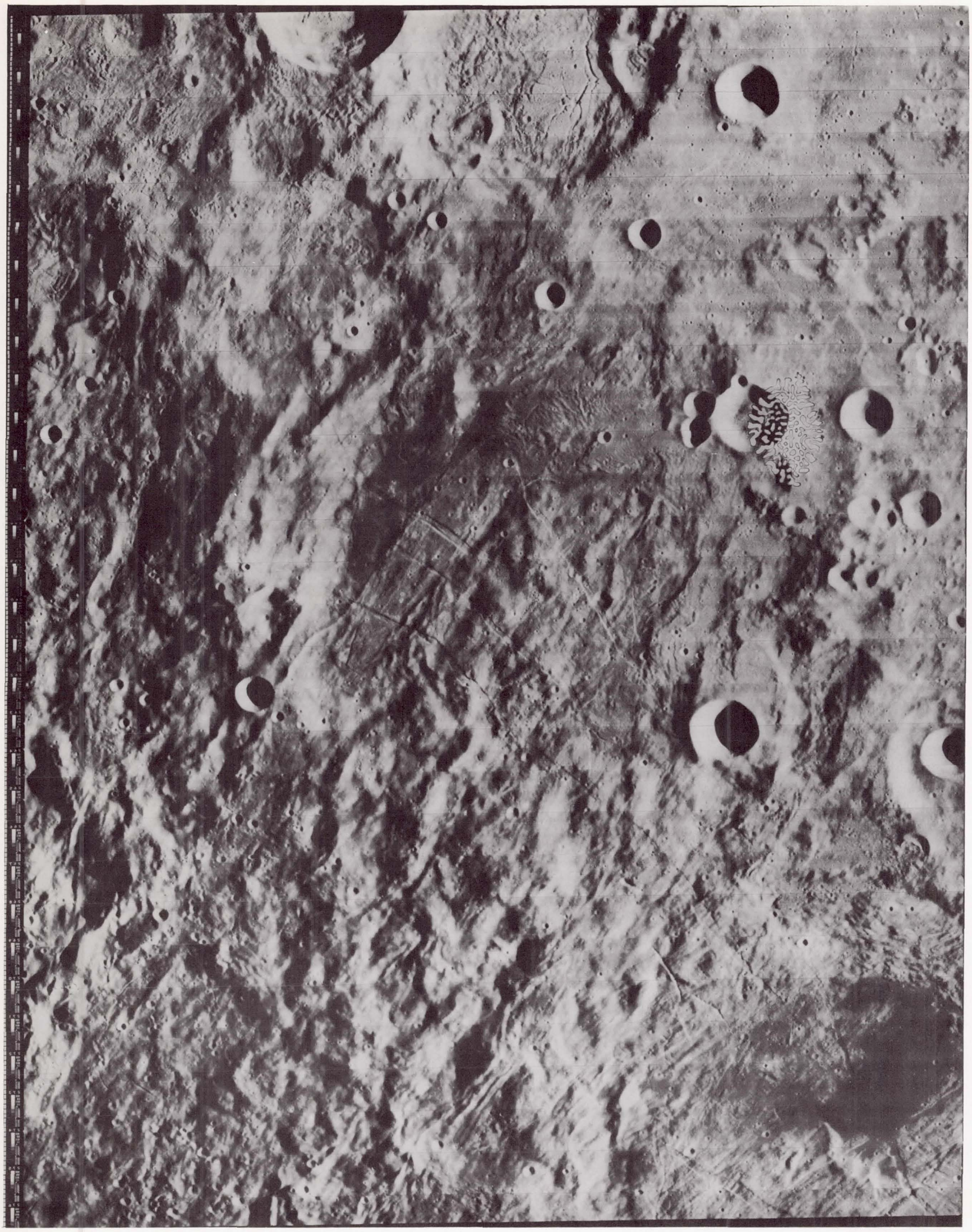
N

PHOTO NO. IV-174-H2

CENTER COORDINATES ..... LONG. −76.00
LAT. 13.37
NORTH DEVIATION (DEG.) ..... 353.95
SUN ANGLE ..... 74.5
SPACECRAFT ALTITUDE (KM) ..... 2673.10

PLATE 157

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-174-H1

CENTER COORDINATES ..... LONG. −76.00
LAT 13.37
NORTH DEVIATION (DEG.) ..... 353.95
SUN ANGLE ..... 74.5
SPACECRAFT ALTITUDE (KM) ..... 2673.10

N

1 CENTIMETER ≈ 11 KILOMETERS

HEDIN ..... H7
OLBERS ..... F1
RICCIOLI ..... B14

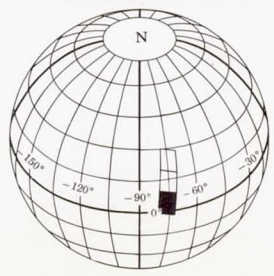
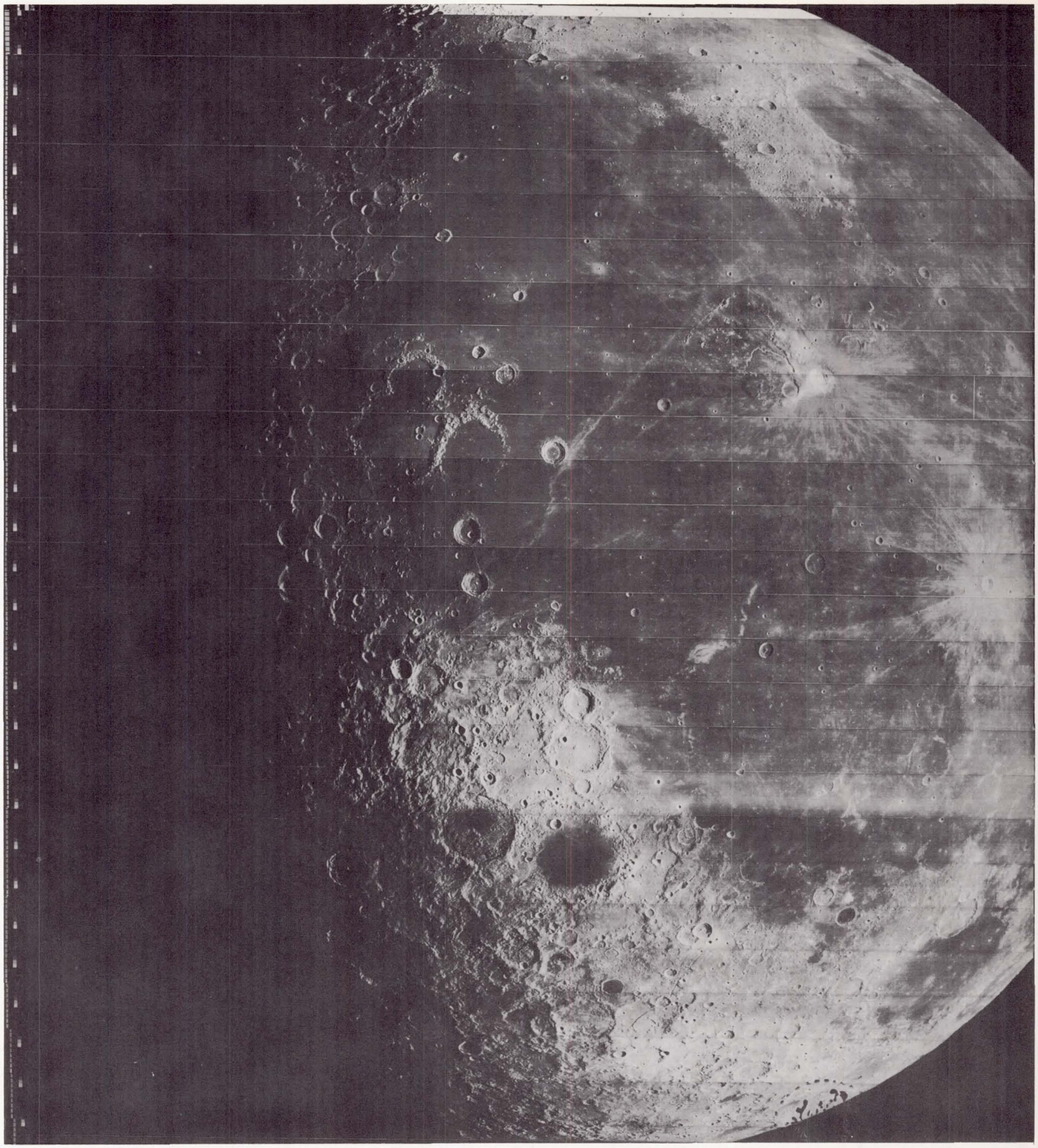
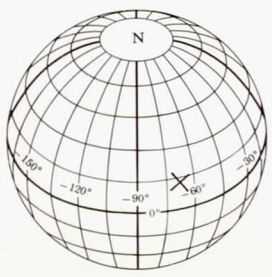



PLATE 158

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... M12
OCEANUS PROCELLARUM .... J6

1 CENTIMETER ≈ 84 KILOMETERS

N

PHOTO NO. IV-169-M

CENTER COORDINATES ..... LONG. —68.48
LAT. 13.70
NORTH DEVIATION (DEG.) ..... 353.85
SUN ANGLE ..... 73.1
SPACECRAFT ALTITUDE (KM) ..... 2672.11

PLATE 159

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

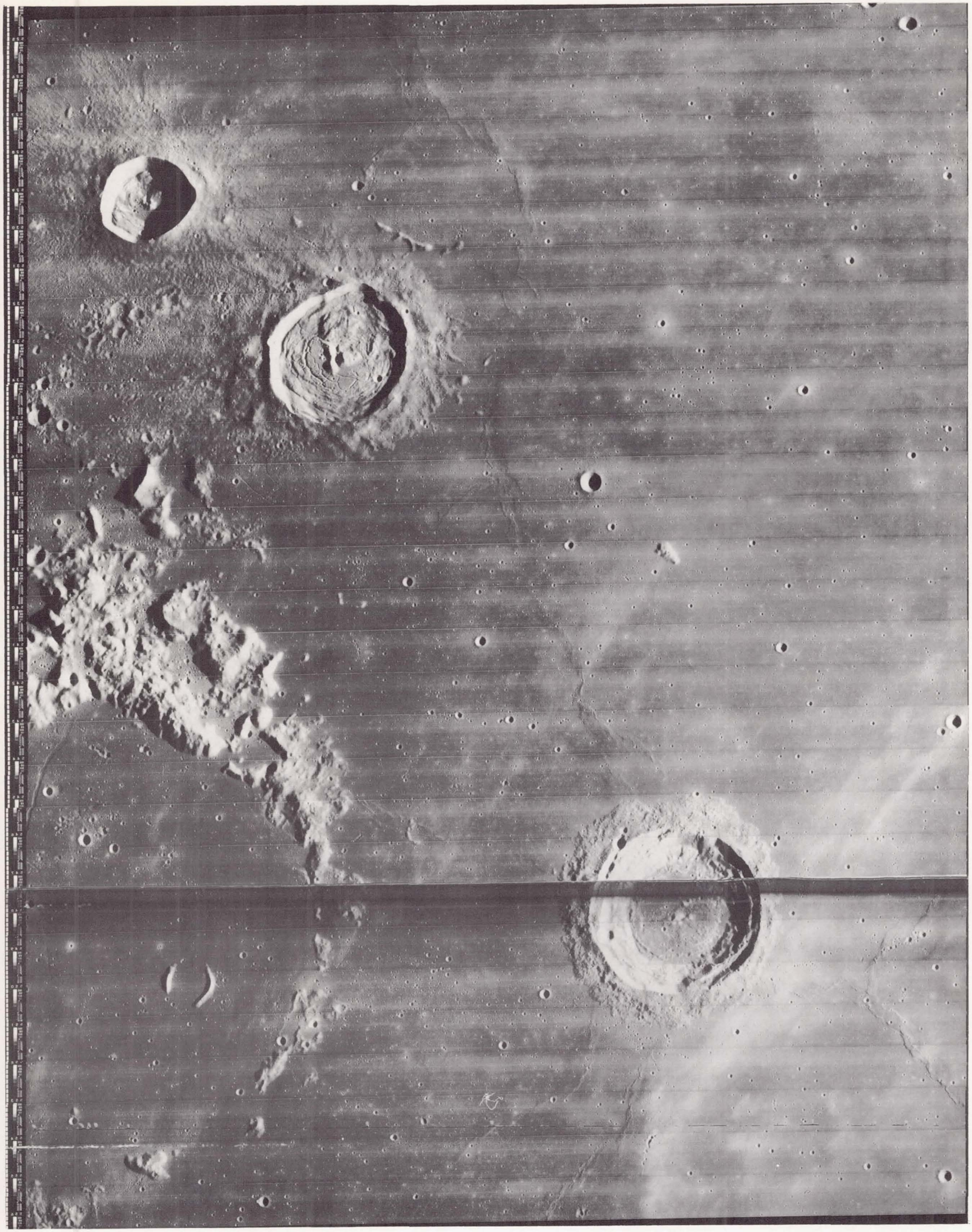


PHOTO NO. IV-169-H3

CENTER COORDINATES ..... LONG. −68.48
LAT. 13.69
NORTH DEVIATION (DEG.) ..... 353.85
SUN ANGLE ..... 73.1
SPACECRAFT ALTITUDE (KM) ..... 2672.11

N

1 CENTIMETER ≈ 11 KILOMETERS

BRIGGS ..... H5
EDINGTON .... L12
SELEUCUS .... D12

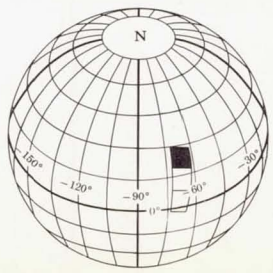
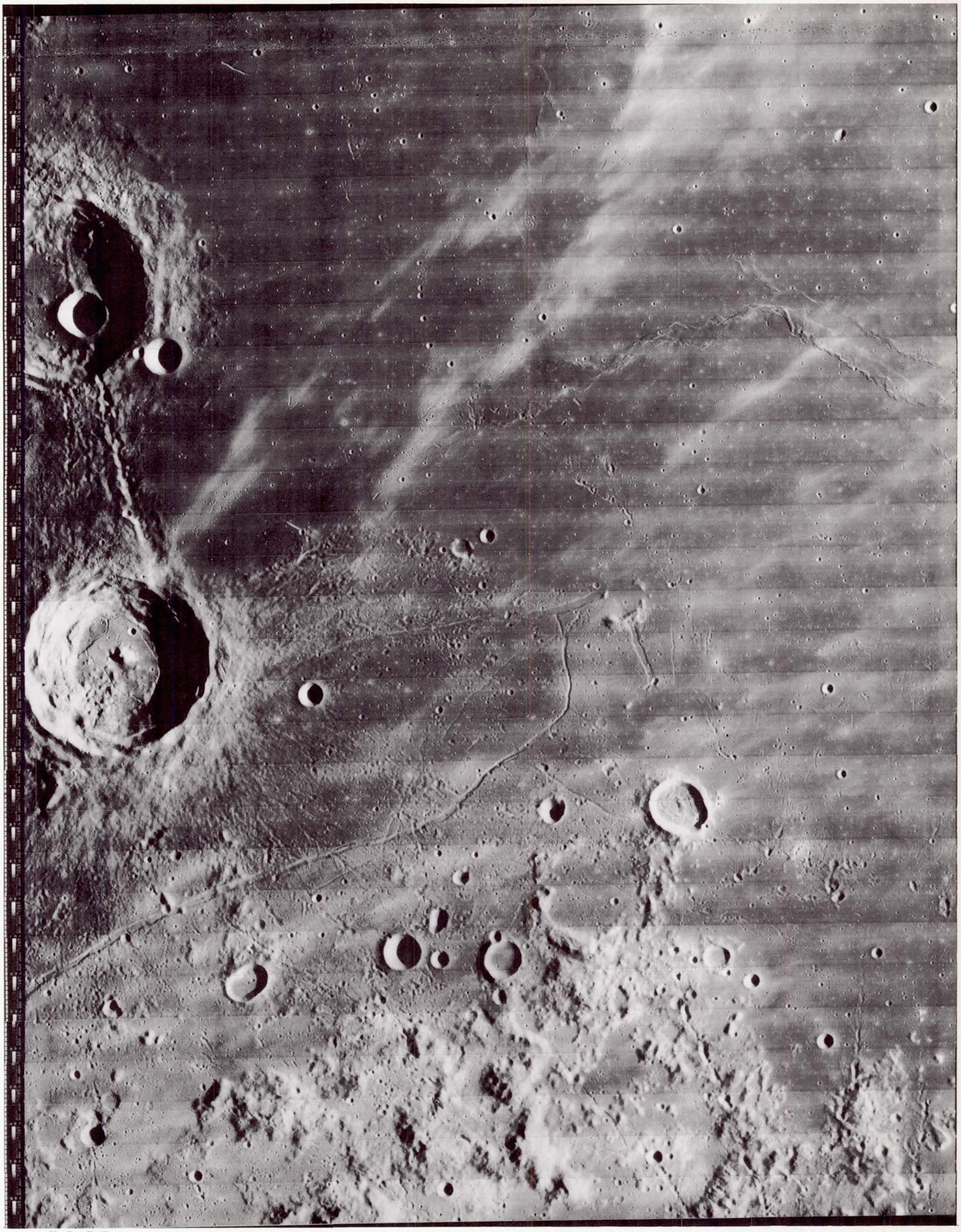
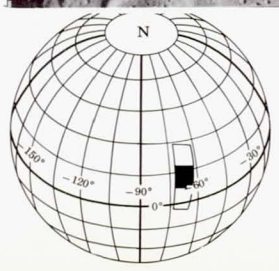



PLATE 160

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CARDANUS .... B9
KRAFFT ..... A4

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-169-H2

CENTER COORDINATES ..... LONG. −68.48
LAT. 13.69
NORTH DEVIATION (DEG.) ..... 353.85
SUN ANGLE ..... 73.1
SPACECRAFT ALTITUDE (KM) ..... 2672.11

PLATE 161

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

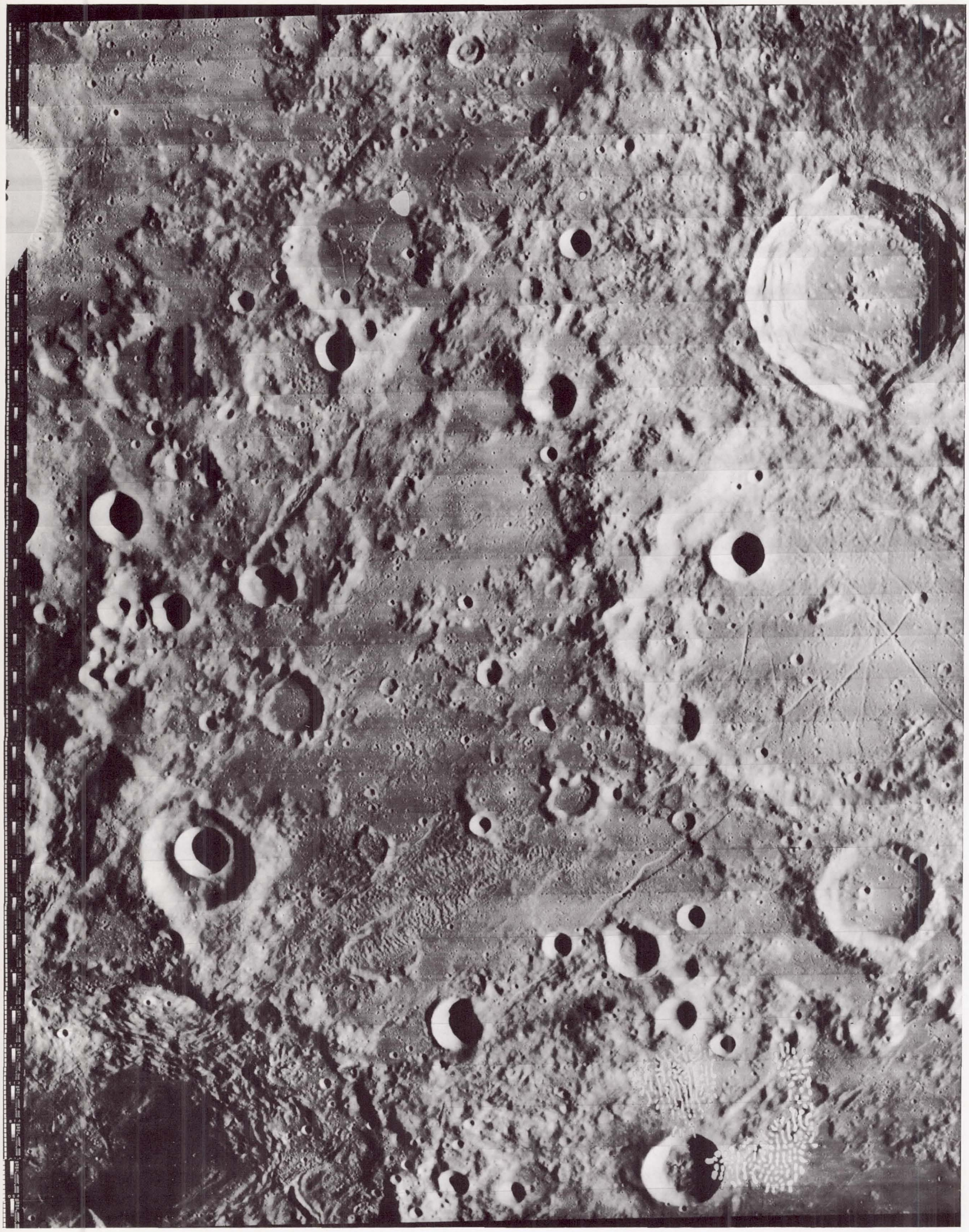


PHOTO NO. IV-169-H1

CENTER COORDINATES ..... LONG. −68.48
LAT. 13.69
NORTH DEVIATION (DEG.) ..... 353.85
SUN ANGLE ..... 73.1
SPACECRAFT ALTITUDE (KM) ..... 2672.11

N

1 CENTIMETER ≈ 11 KILOMETERS

CAVALERIUS ....B4
HEVELIUS .....B8

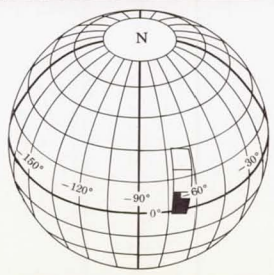
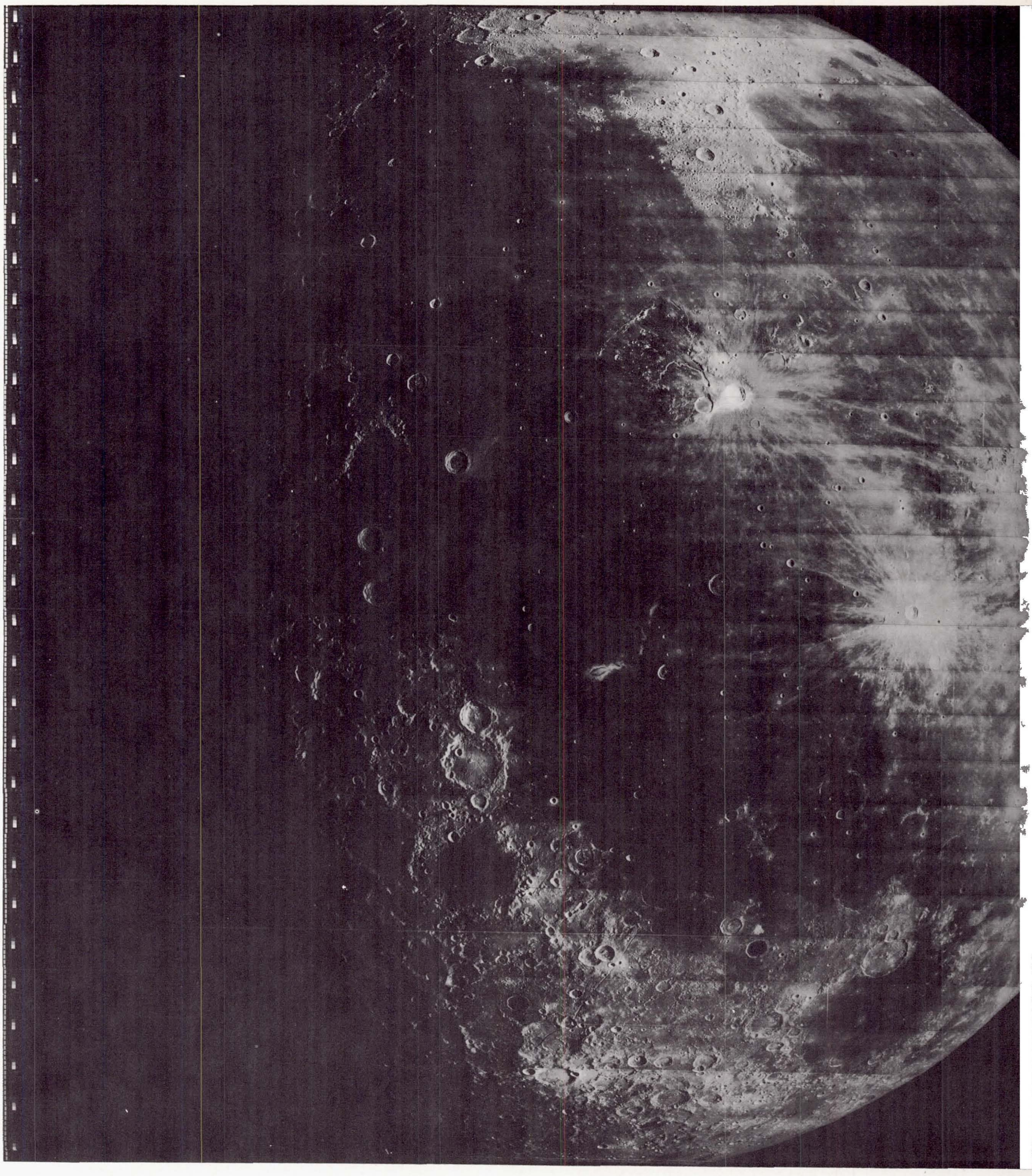
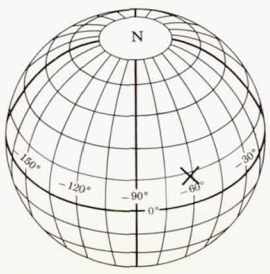



PLATE 162

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






GRIMALDI ..... F10
HEVELIUS ..... F9
MARE HUMORUM ..... L12
OCEANUS PROCELLARUM .... J7

1 CENTIMETER ≈ 84 KILOMETERS

N

PHOTO NO. IV-162-M

CENTER COORDINATES ..... LONG. −62.17
LAT. 13.23
NORTH DEVIATION (DEG.) ..... 354.14
SUN ANGLE ..... 72.9
SPACECRAFT ALTITUDE (KM) ..... 2669.95

PLATE 163

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

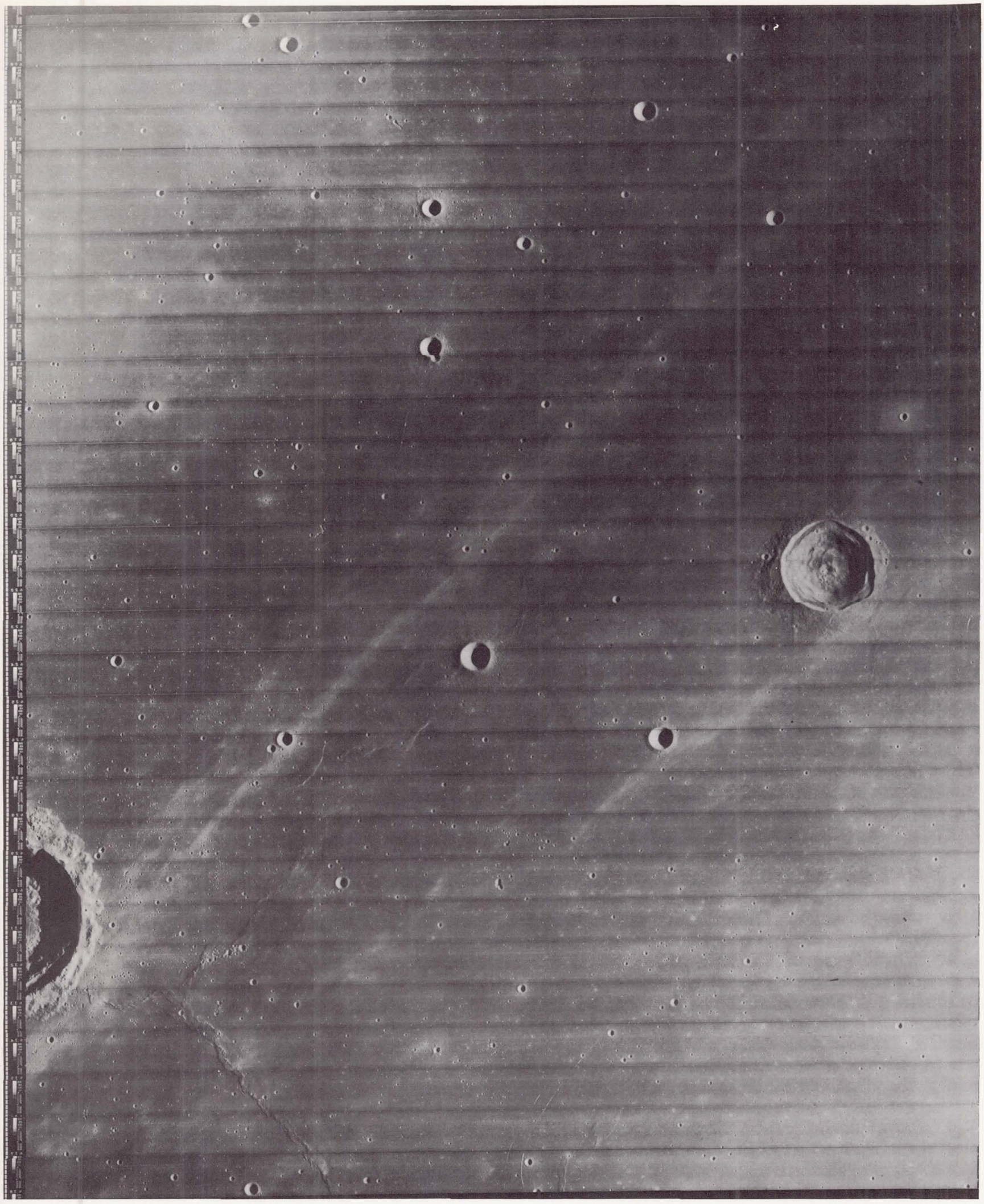


PHOTO NO.IV-162-H3

CENTER COORDINATES ..... LONG. −62.17
LAT. 13.22
NORTH DEVIATION (DEG.) ..... 354.14
SUN ANGLE ..... 72.9
SPACECRAFT ALTITUDE (KM) ..... 2669.94

N

1 CENTIMETER ≈ 11 KILOMETERS

SCHIAPARELLI .... B8

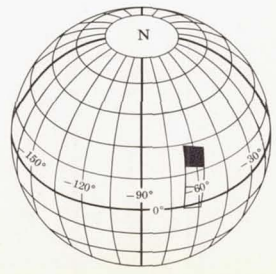
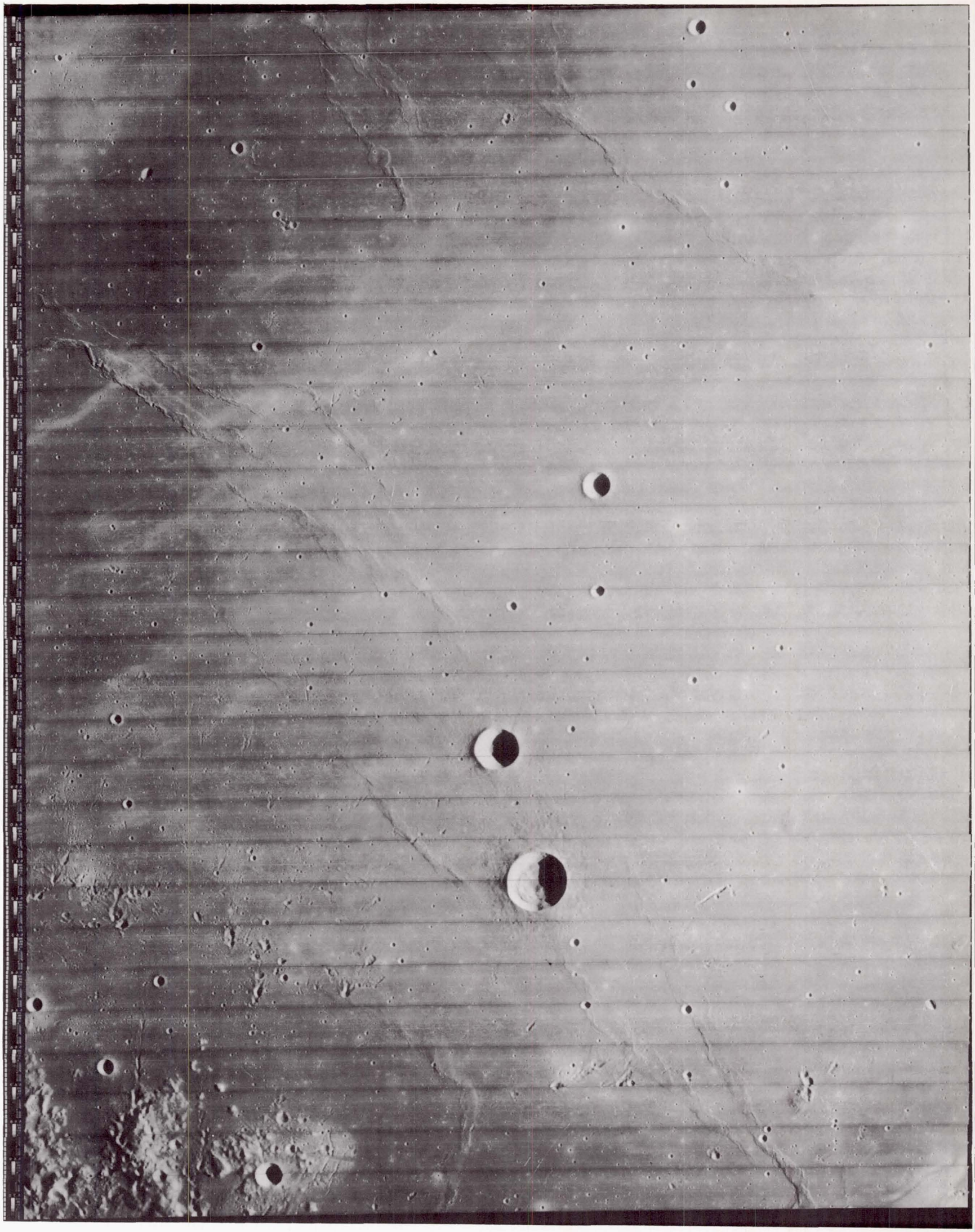
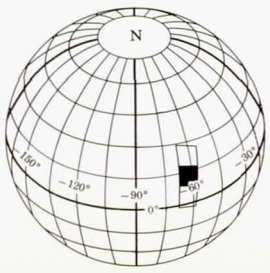



PLATE 164

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






GALILAEI .....G11

1 CENTIMETER≈11 KILOMETERS

N

PHOTO NO.IV-162-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −62.17 |
| | LAT. 13.22 |
| NORTH DEVIATION (DEG.) ..... | 354.14 |
| SUN ANGLE ..... | 72.9 |
| SPACECRAFT ALTITUDE (KM) ..... | 2669.94 |

PLATE 165

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO.IV-162-H1

CENTER COORDINATES ..... LONG. –62.17
LAT. 13.22
NORTH DEVIATION (DEG.) ..... 354.14
SUN ANGLE ..... 72.9
SPACECRAFT ALTITUDE (KM) ..... 2669.94

N

1 CENTIMETER ≈ 11 KILOMETERS

CAVALERIUS .... L4
HEVELIUS ..... L9
LOHRMANN .....L12

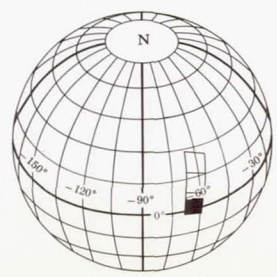
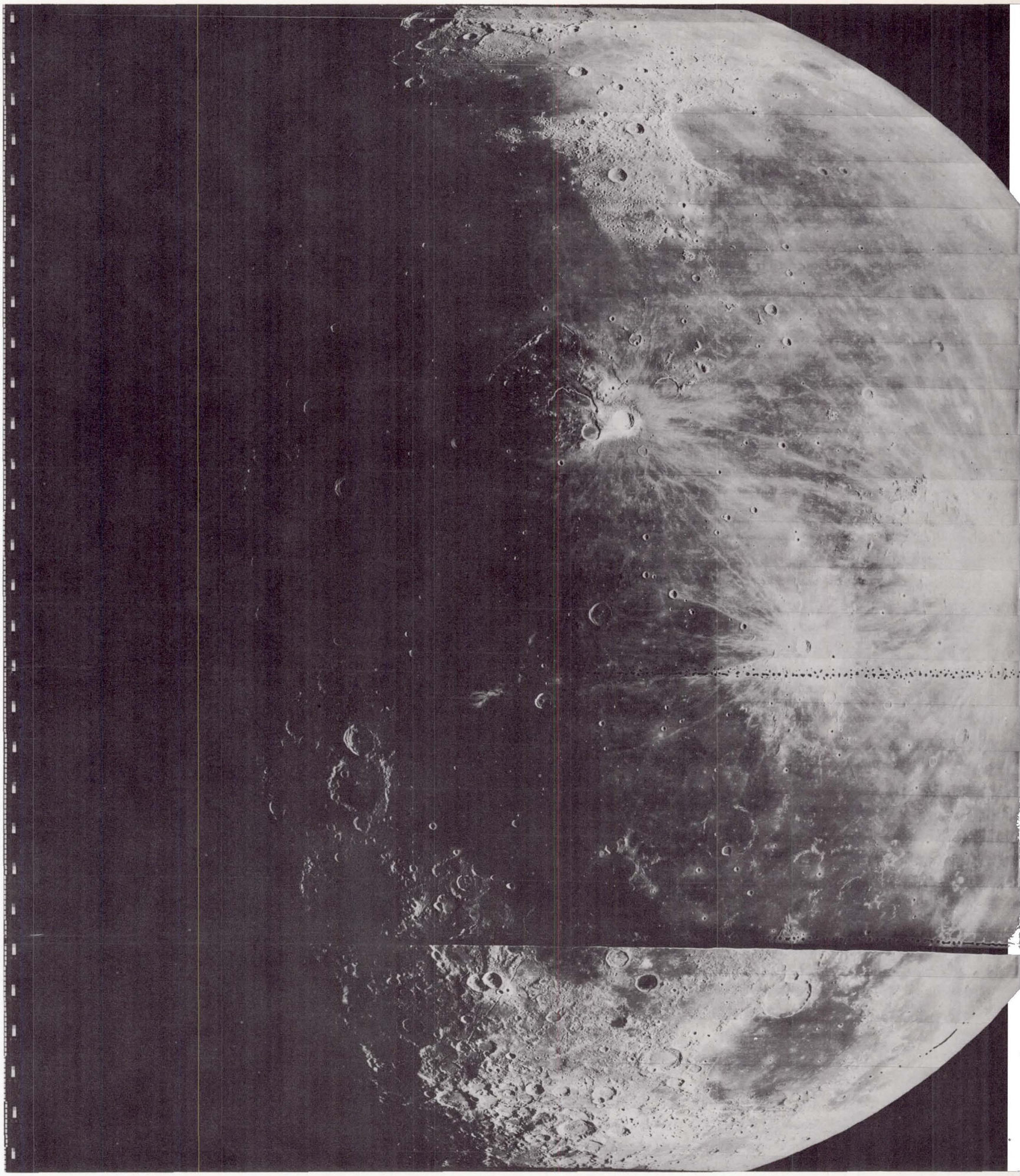
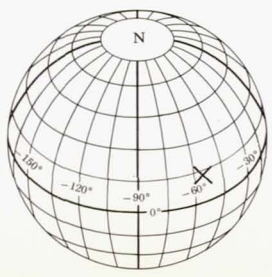



PLATE 166

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| ARISTARCHUS | H6 |
| HERODOTUS | G5 |
| MARE HUMORUM | K13 |
| MARE IMBRIUM | L4 |
| OCEANUS PROCELLARUM | G7 |
| SINUS IRIDUM | J2 |

1 CENTIMETER ≈ 84 KILOMETERS

N

PHOTO NO. IV-157-M

| | |
|---|---|
| CENTER COORDINATES | LONG. —56.27 |
| | LAT. 13.36 |
| NORTH DEVIATION (DEG.) | 354.84 |
| SUN ANGLE | 73.1 |
| SPACECRAFT ALTITUDE (KM) | 2668.85 |

PLATE 167

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

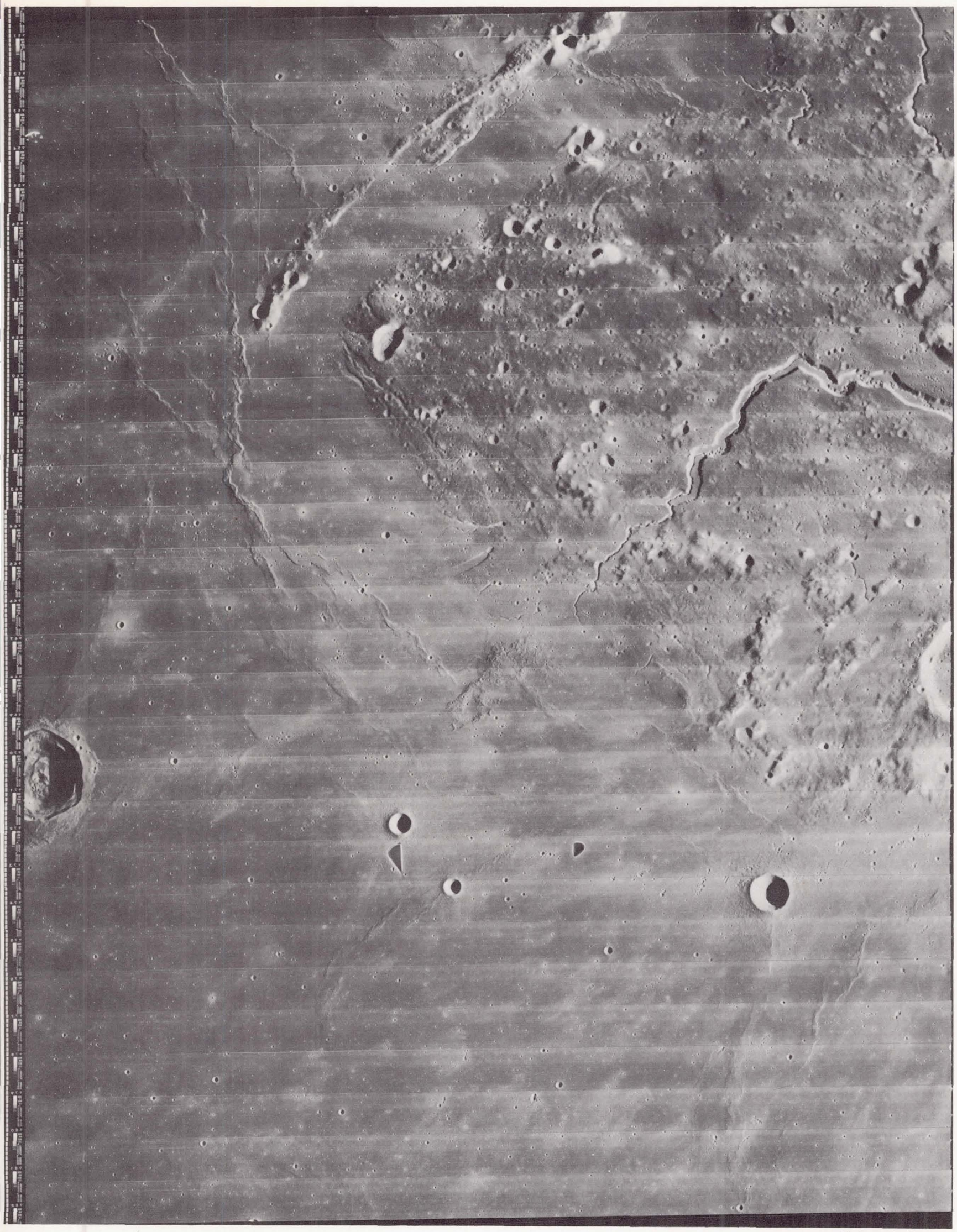


PHOTO NO. IV-157-H3

CENTER COORDINATES ..... LONG. —56.27
LAT. 13.36
NORTH DEVIATION (DEG.) ..... 354.84
SUN ANGLE ..... 73.1
SPACECRAFT ALTITUDE (KM) ..... 2668.85

N

1 CENTIMETER ≈ 11 KILOMETERS

HEREDOTUS ..... A9
SHIAPARELLI ..... M10
VALLIS SCHROTERI ..... B5

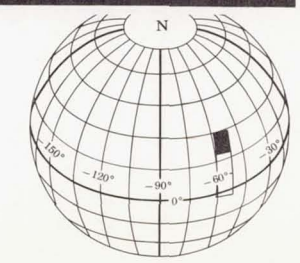
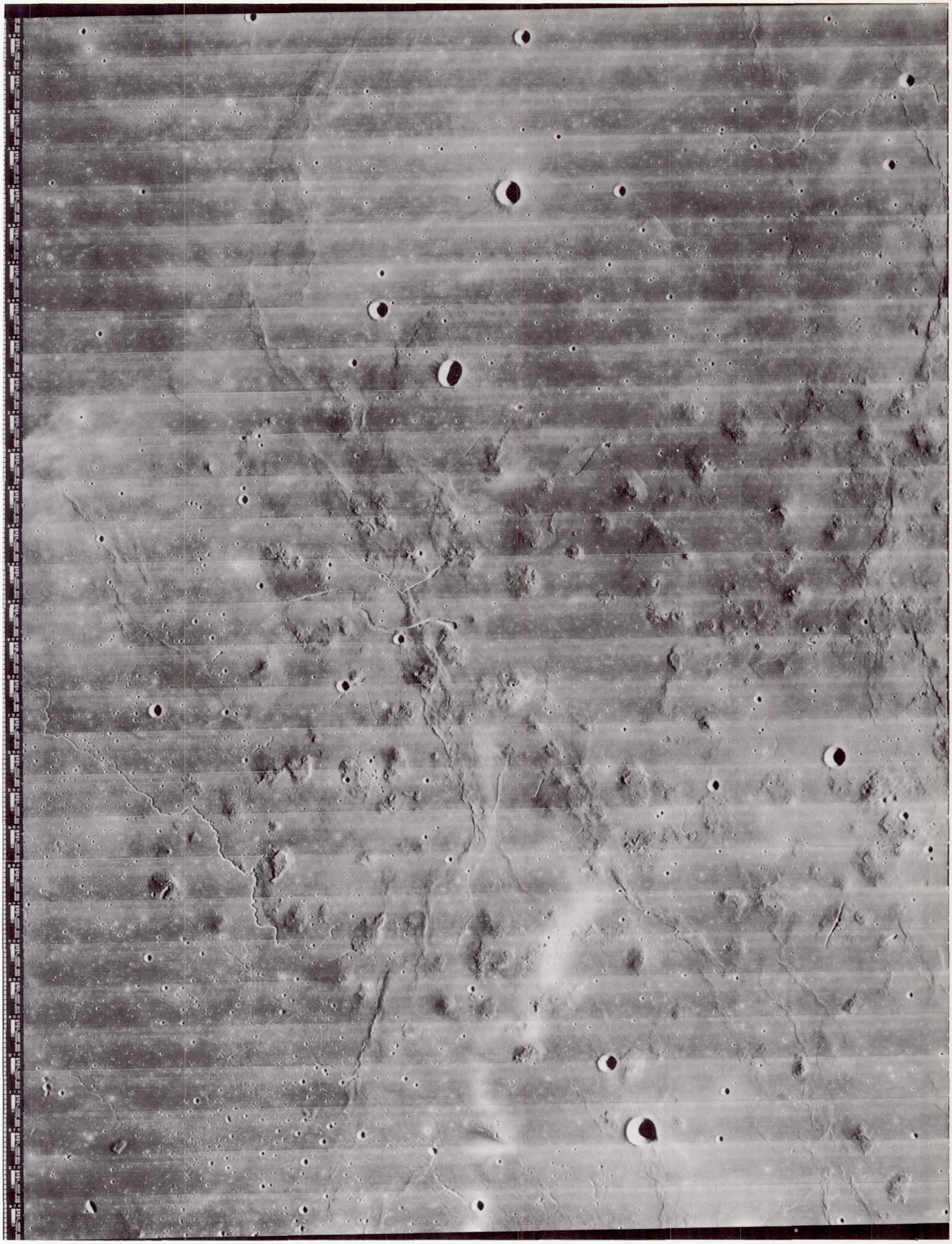
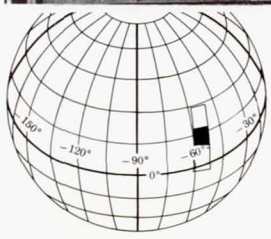



PLATE 168

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-157-H2

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | −56.27 |
| | LAT. | 13.36 |
| NORTH DEVIATION (DEG.) | | 354.84 |
| SUN ANGLE | | 73.1 |
| SPACECRAFT ALTITUDE (KM) | | 2668.85 |

PLATE 169

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

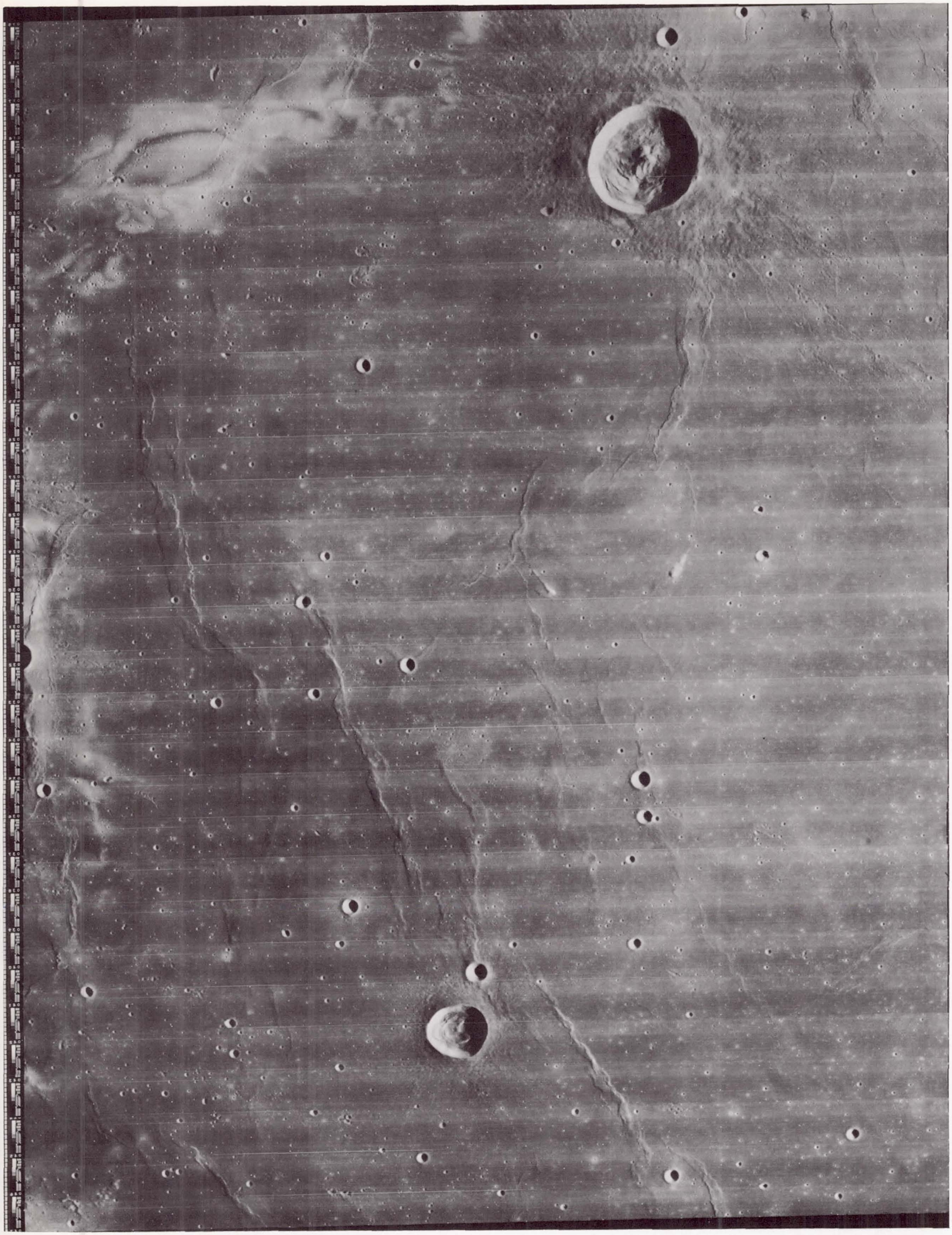


PHOTO NO. IV-157-H1

CENTER COORDINATES ..... LONG. −56.27
LAT. 13.36
NORTH DEVIATION (DEG.) ..... 354.84
SUN ANGLE ..... 73.1
SPACECRAFT ALTITUDE (KM) ..... 2668.85

N

1 CENTIMETER ≈ 11 KILOMETERS

HERMANN ....G13
REINER ..... D2

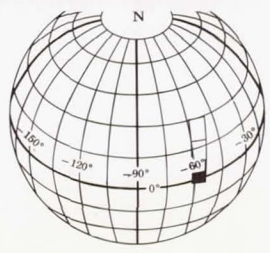
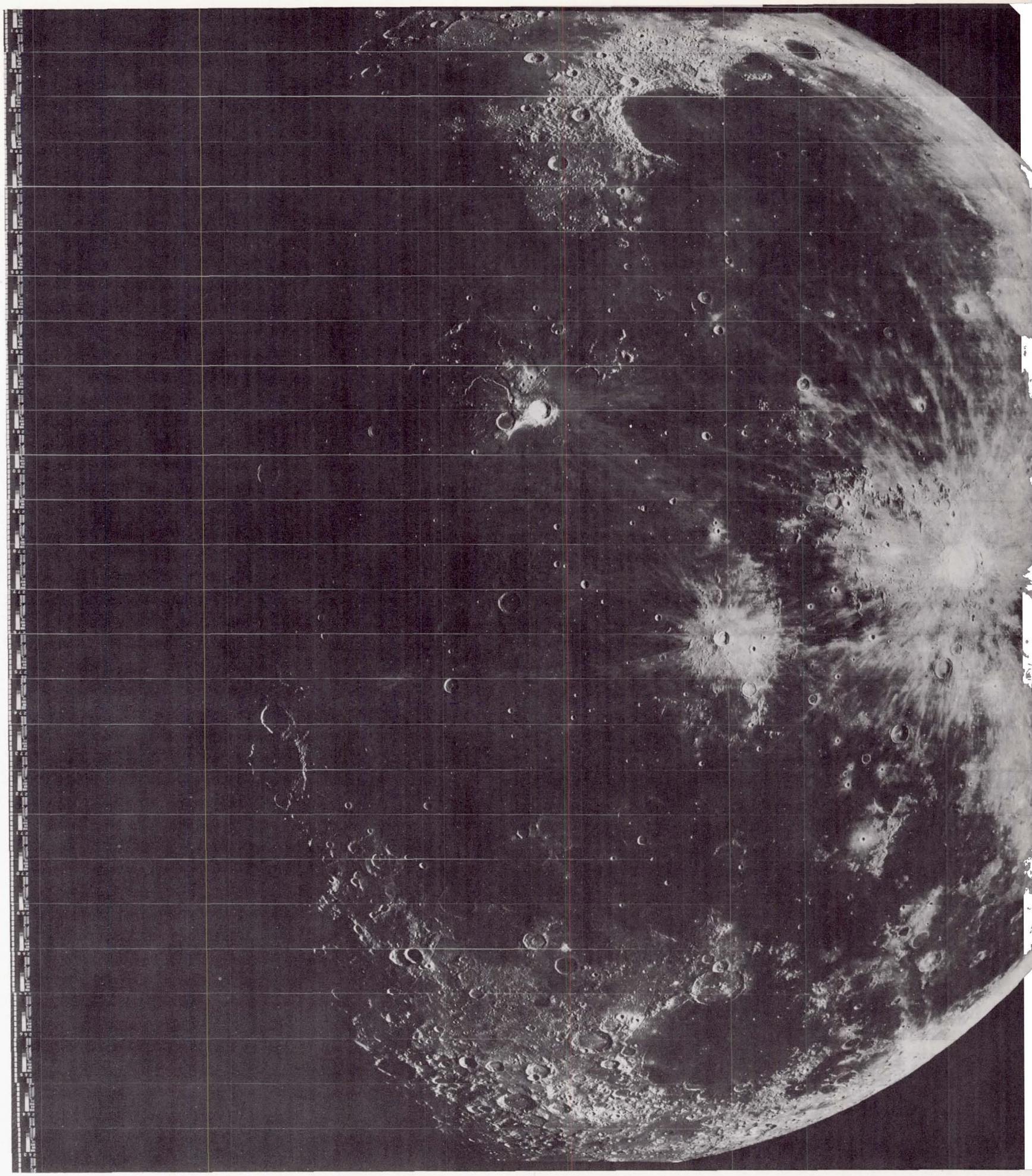
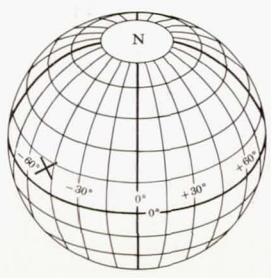



PLATE 170

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE HUMORUM | J13 |
| MARE IMBRIUM | K4 |
| OCEANUS PROCELLARUM | G8 |
| SINUS IRIDUM | H2 |
| SINUS RORIS | F1 |

1 CENTIMETER≈ 84 KILOMETERS

N

PHOTO NO. IV-150-M

| | |
|---|---|
| CENTER COORDINATES | LONG. −49.29 |
| | LAT. 12.70 |
| NORTH DEVIATION (DEG.) | 354.44 |
| SUN ANGLE | 72.2 |
| SPACECRAFT ALTITUDE (KM) | 2668.41 |

PLATE 171

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

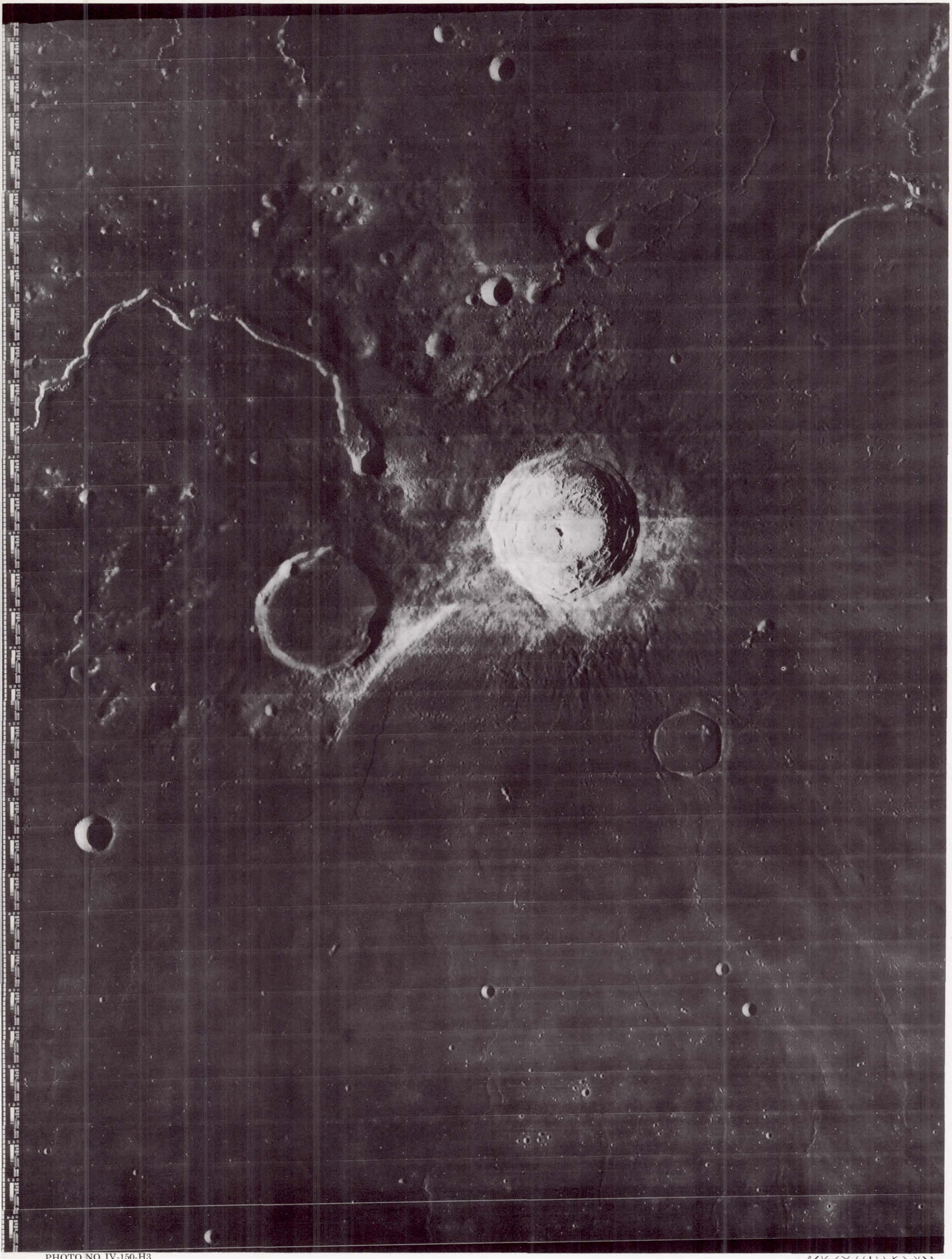


PHOTO NO. IV-150-H3

CENTER COORDINATES ..... LONG. −49.29
LAT. 12.70
NORTH DEVIATION (DEG.) ..... 354.44
SUN ANGLE ..... 72.2
SPACECRAFT ALTITUDE (KM) ..... 2668.40

N

1 CENTIMETER ≈ 11 KILOMETERS

ARISTARCHUS ..... E7
HERODOTUS ..... H8
PRINZ ..... A4
VALLIS SCHROTERI .... K4

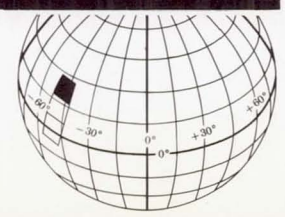
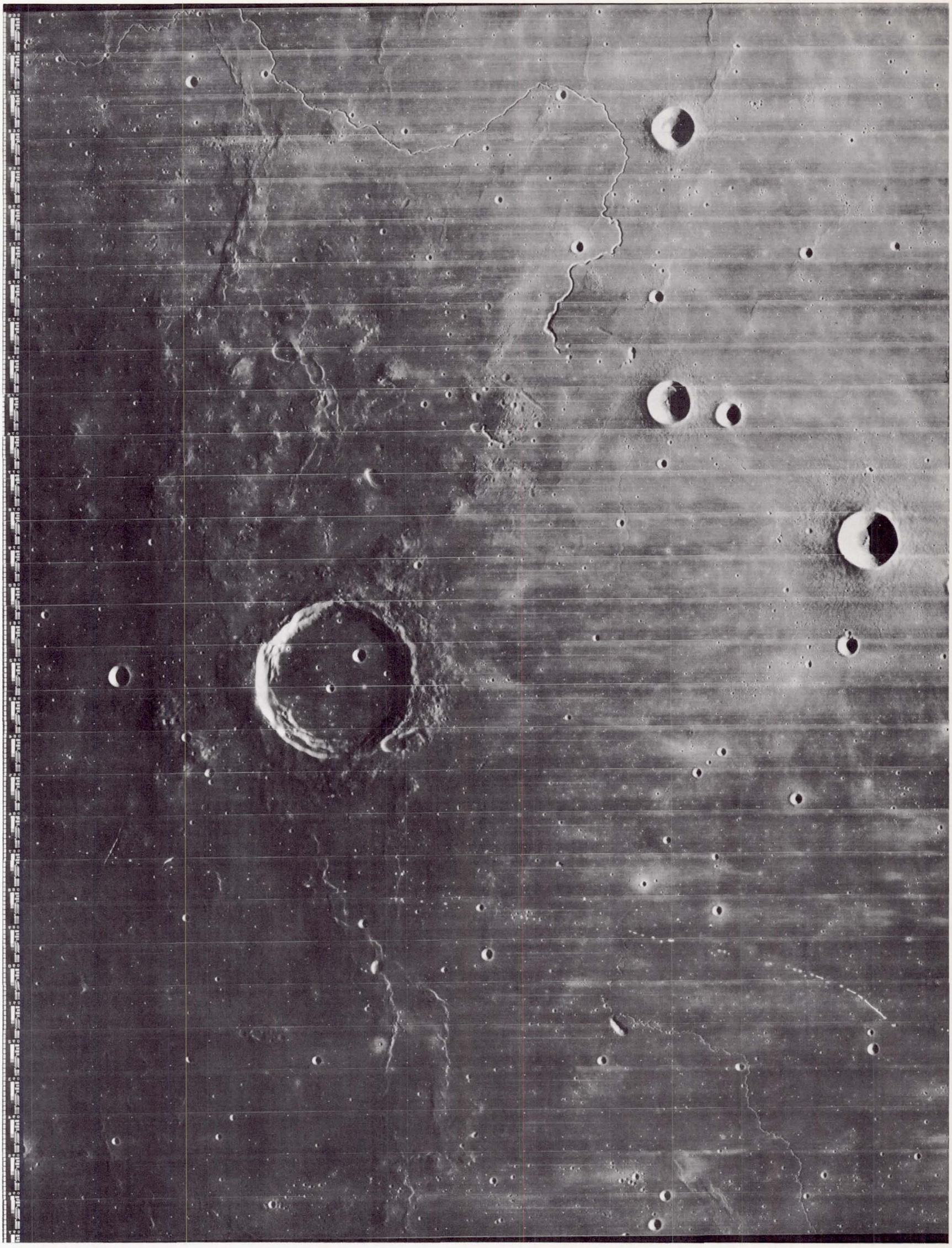
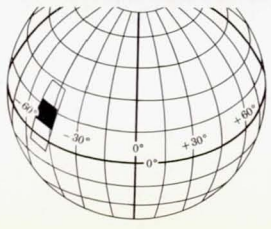



PLATE 172

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARIUS ..... E9

1 CENTIMETER ≈ 11 KILOMETERS

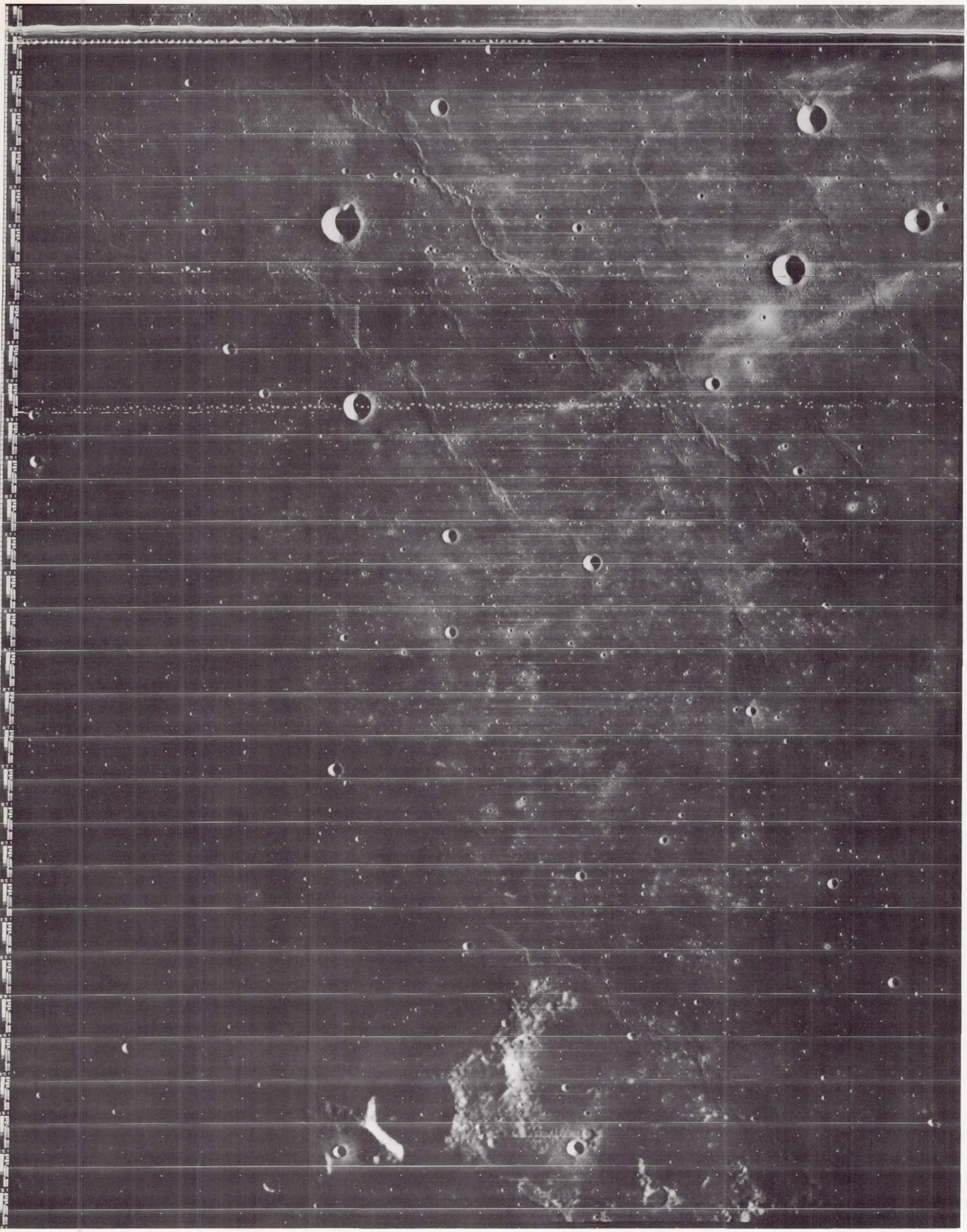
N

PHOTO NO. IV-150-H2

CENTER COORDINATES ..... LONG. -49.29
LAT. 12.70
NORTH DEVIATION (DEG.) ..... 354.44
SUN ANGLE ..... 72.2
SPACECRAFT ALTITUDE (KM) ..... 2668.40

PLATE 173

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO.IV-150-H1

CENTER COORDINATES ..... LONG. –49.29
LAT. 12.70
NORTH DEVIATION (DEG.) .....354.44
SUN ANGLE ..... 72.2
SPACECRAFT ALTITUDE (KM) .....2668.40

N

1 CENTIMETER ≈11 KILOMETERS

SUESS .... C4

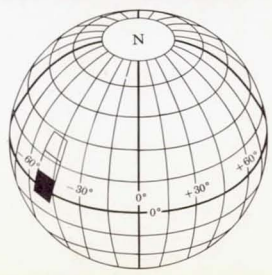
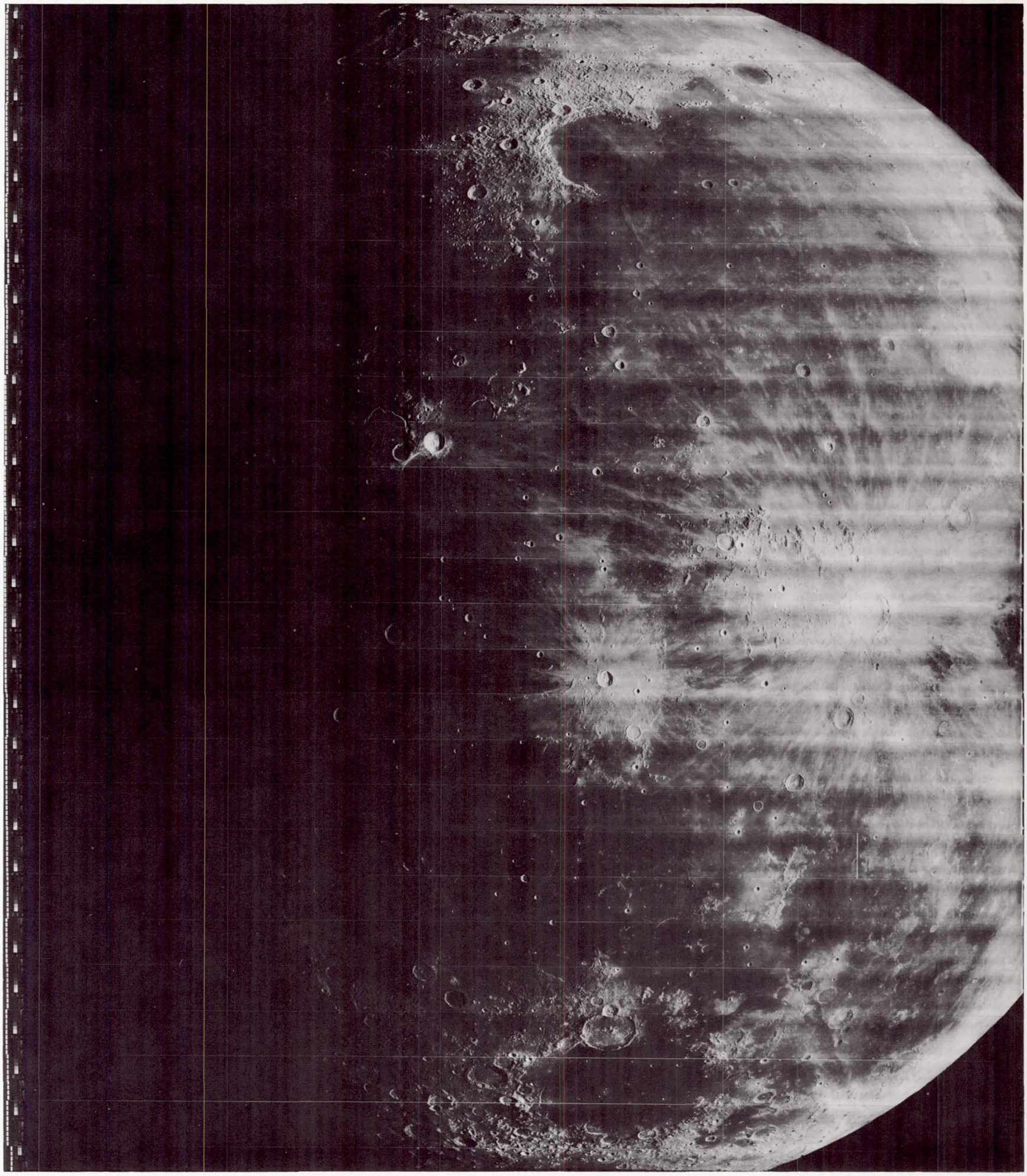
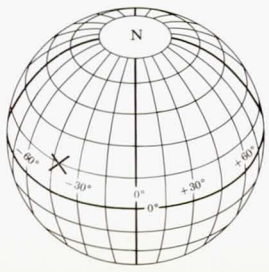



PLATE 174

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... H14
MARE IMBRIUM ..... K4
OCEANUS PROCELLARUM ..... F9
SINUS IRIDUM ..... H3
SINUS RORIS ..... E4

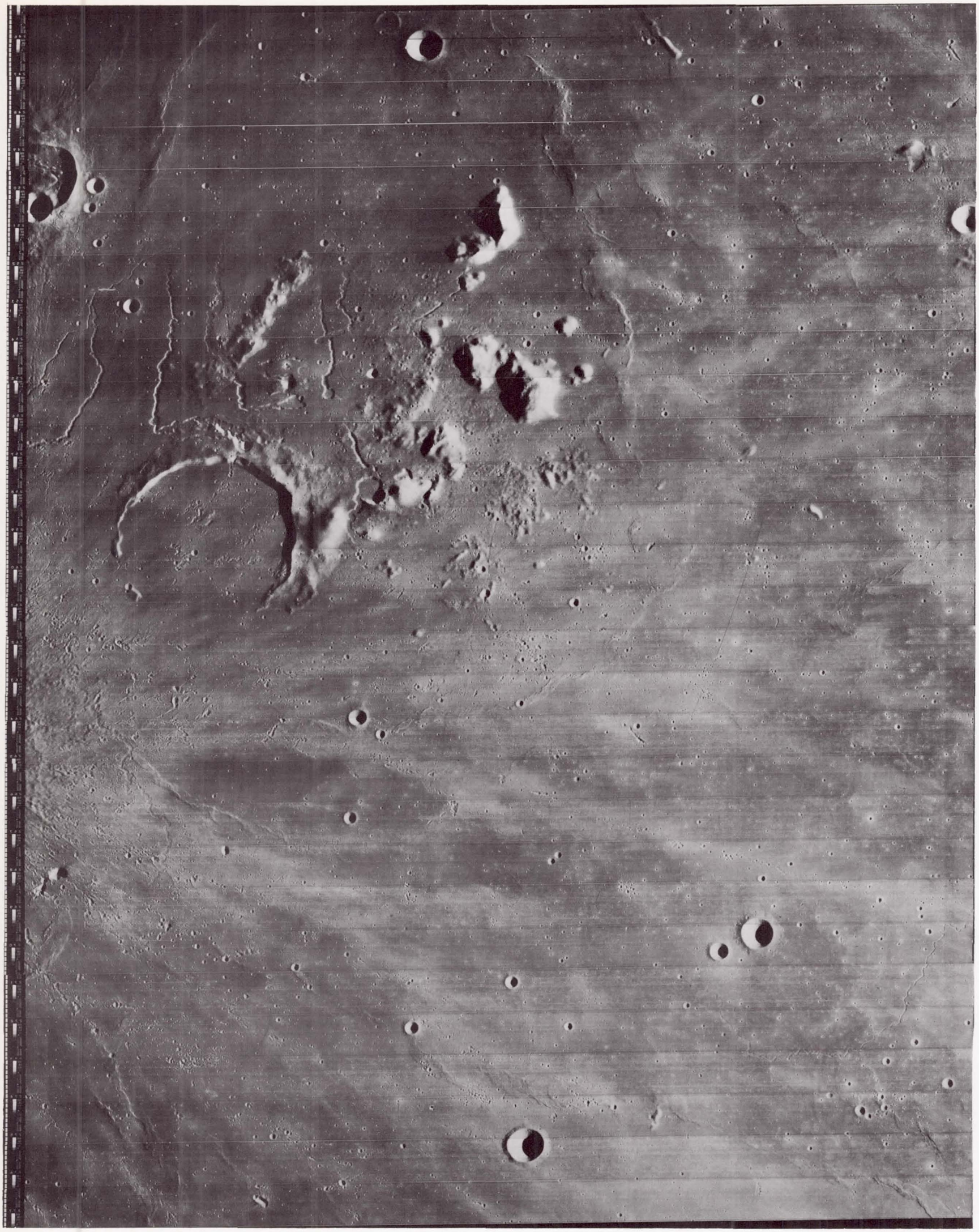
1 CENTIMETER ≈ 84 KILOMETERS

N

PHOTO NO. IV-144-M

CENTER COORDINATES ..... LONG.—41.76
LAT. 14.04
NORTH DEVIATION (DEG.) ..... 354.13
SUN ANGLE ..... 70.9
SPACECRAFT ALTITUDE (KM) ..... 2668.99

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-144-H3

CENTER COORDINATES ..... LONG.—41.76
LAT. 14.03
NORTH DEVIATION (DEG.) ..... 354.13
SUN ANGLE ..... 70.9
SPACECRAFT ALTITUDE (KM) .... 2668.99

N

1 CENTIMETER ≈ 11 KILOMETERS

ANGSTROM .... G1
KRIGER ..... M3
PRINZ ..... K7

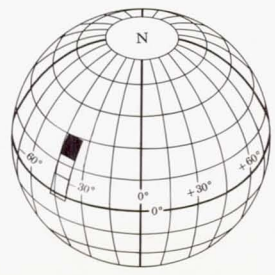
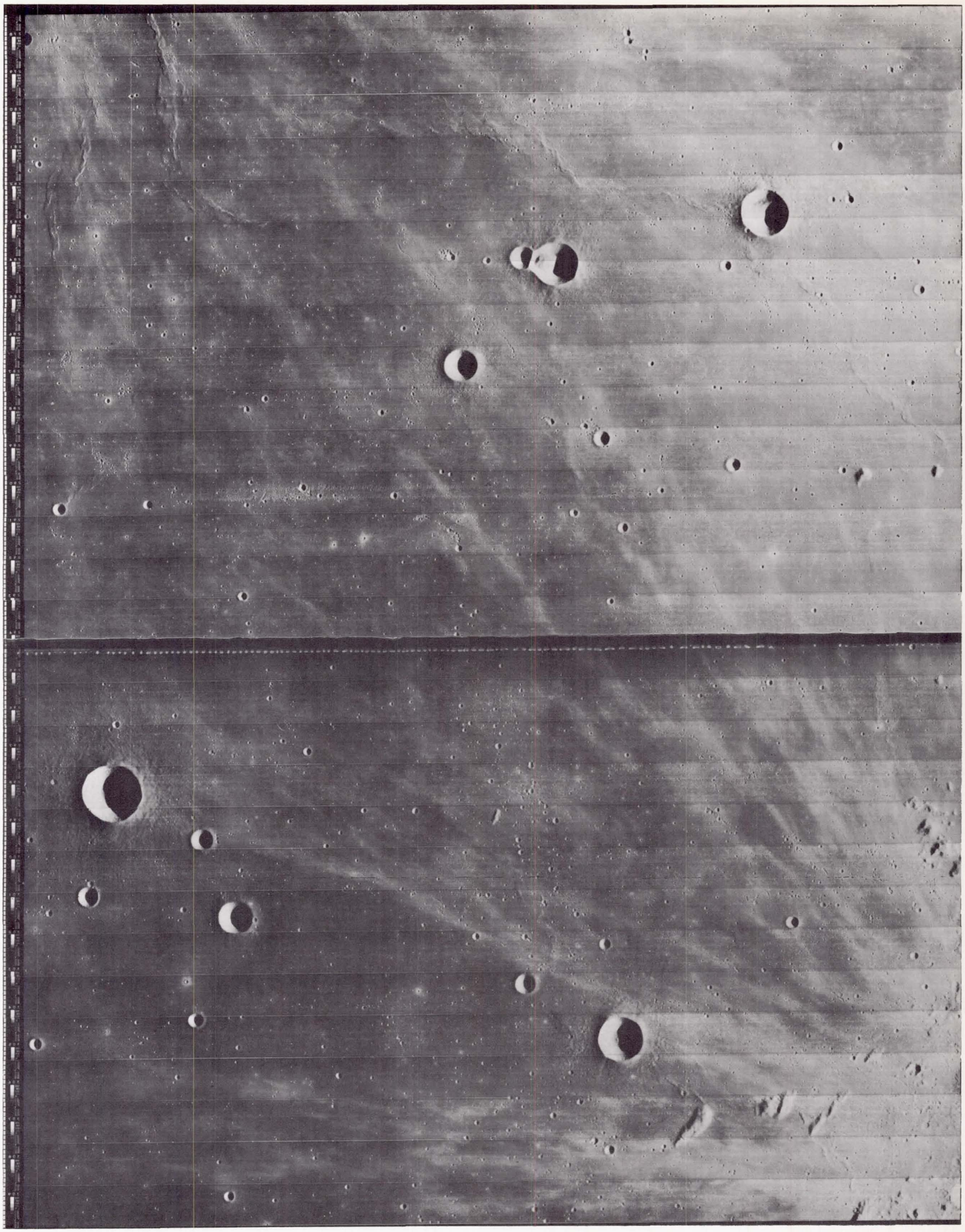
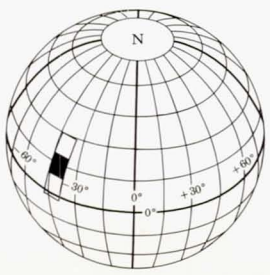



PLATE 176

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 11 KILOMETERS

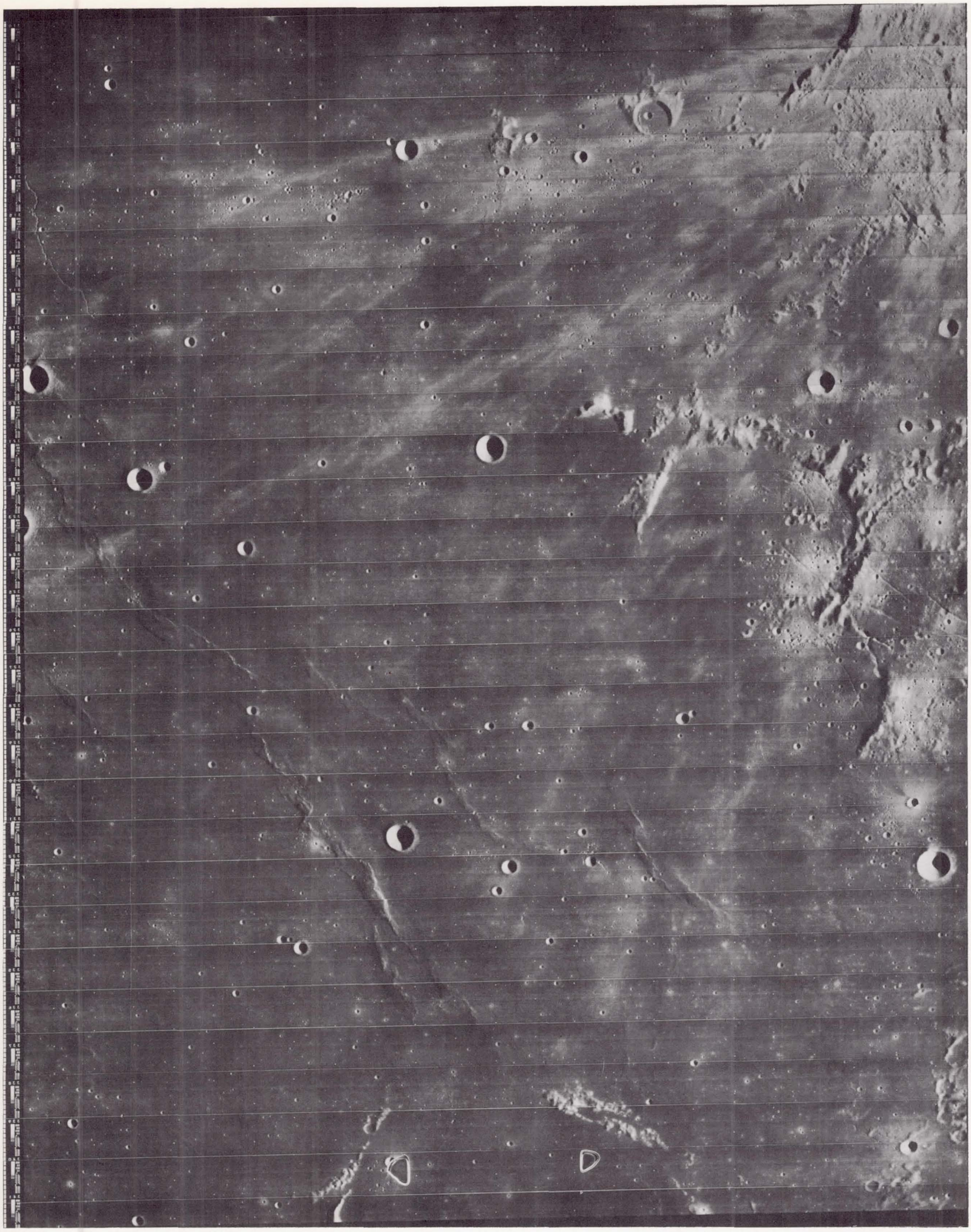
N

PHOTO NO. IV-144- H2

CENTER COORDINATES ..... LONG.—41.76
LAT. 14.03
NORTH DEVIATION (DEG.) ..... 354.13
SUN ANGLE ..... 70.9
SPACECRAFT ALTITUDE (KM) ..... 2668.99

PLATE 177

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-144-H1

CENTER COORDINATES ..... LONG. —41.76
LAT. 14.03
NORTH DEVIATION (DEG.) ..... 354.13
SUN ANGLE ..... 70.9
SPACECRAFT ALTITUDE (KM) ..... 2668.99

N

CENTIMETER ≈ 11 KILOMETERS

MAESTLIN .... B5

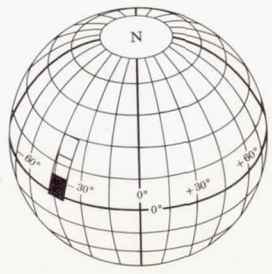
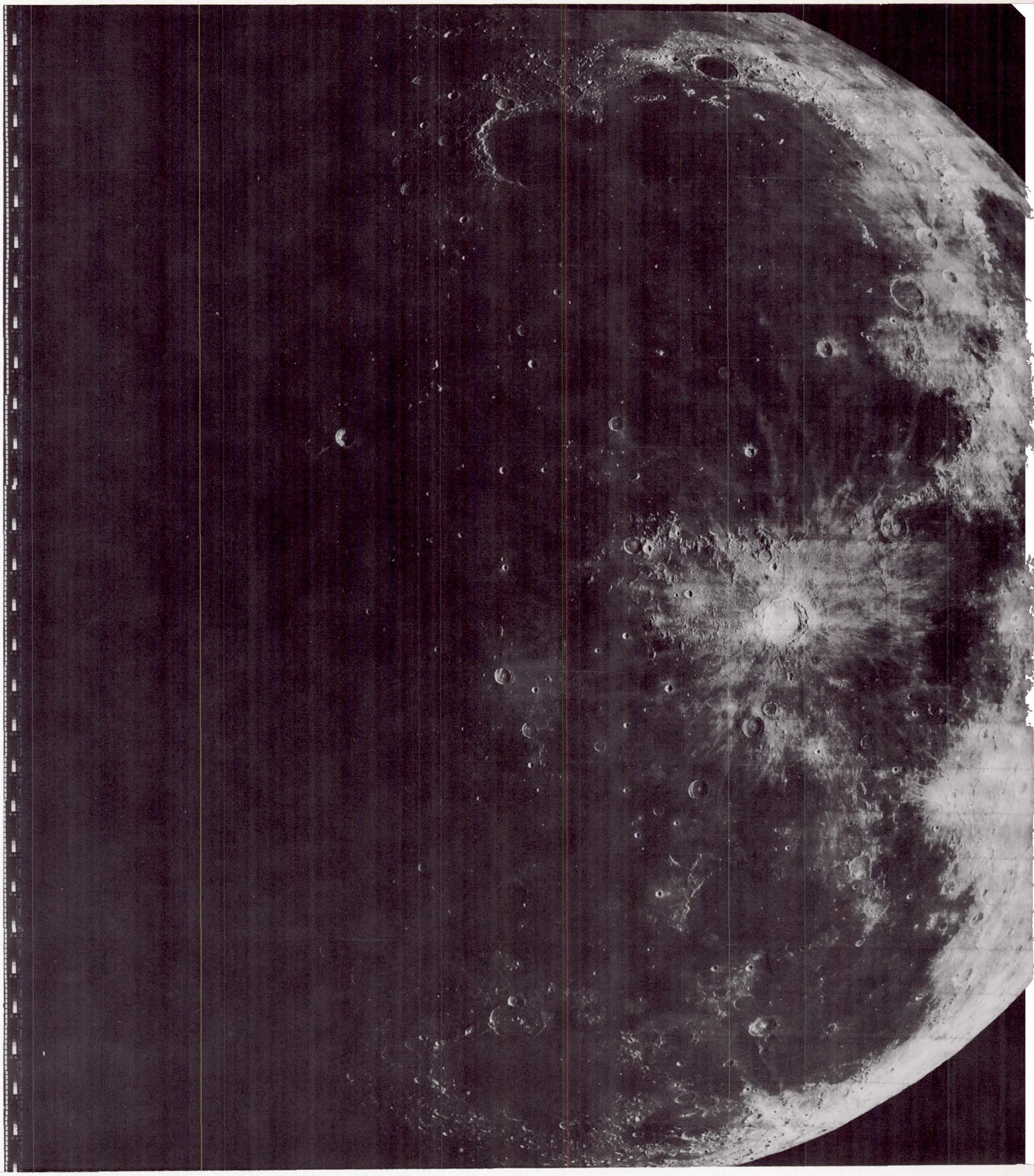
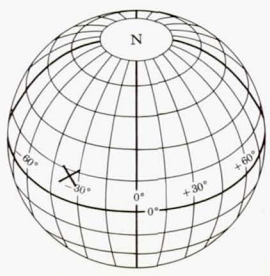



PLATE 178

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| COPERNICUS | K8 |
| MARE HUMORUM | G14 |
| MARE NUBIUM | K13 |
| MARE IMBRIUM | J5 |
| OCEANUS PROCELLARUM | E9 |
| SINUS AESTUUM | L9 |
| SINUS IRIDUM | G3 |

1 CENTIMETER ≈ 84 KILOMETERS

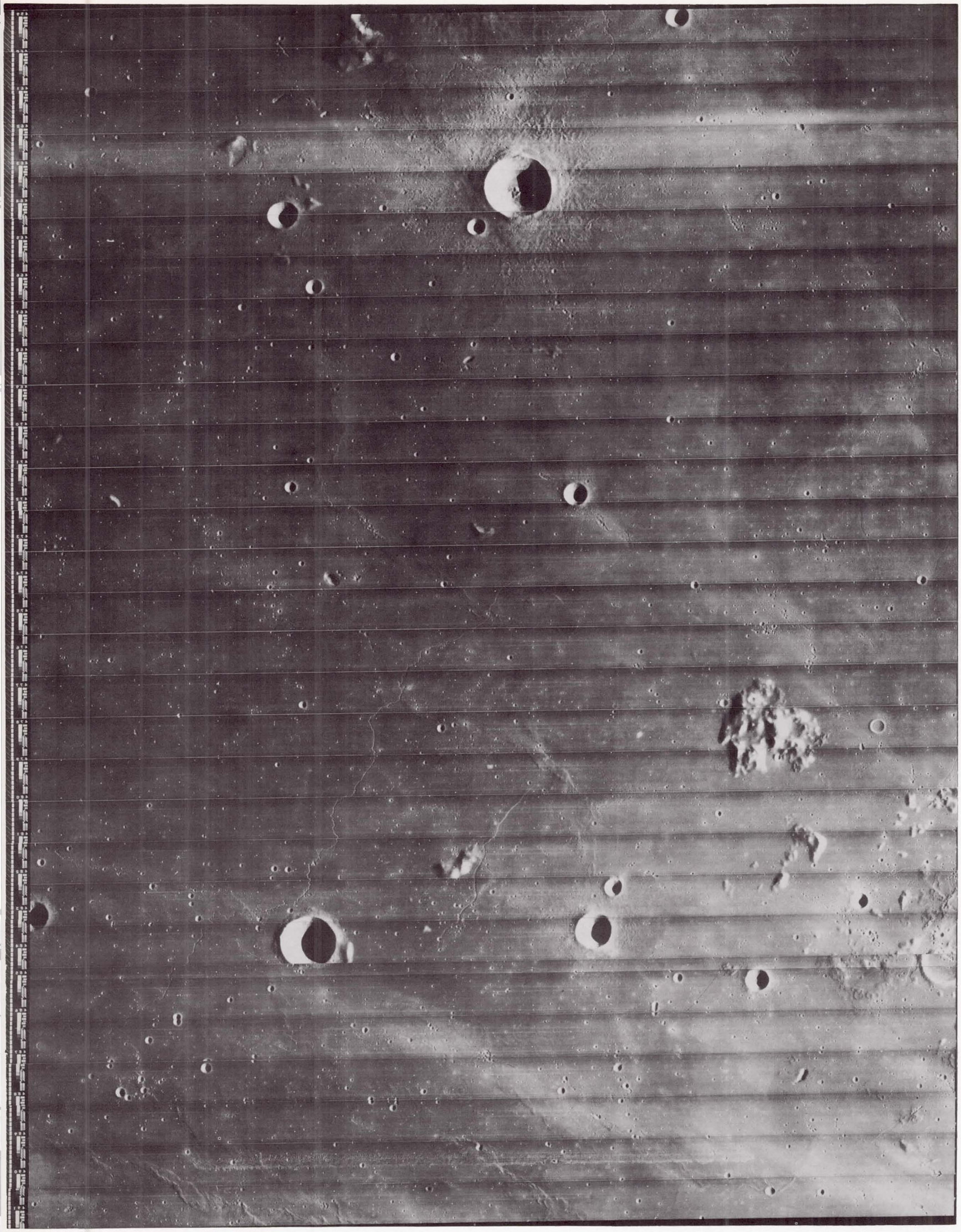
N

PHOTO NO. IV-138-M

| | |
|---|---|
| CENTER COORDINATES | LONG.—36.45 |
| | LAT. 13.71 |
| NORTH DEVIATION (DEG.) | 355.05 |
| SUN ANGLE | 71.7 |
| SPACECRAFT ALTITUDE (KM) | 2670.70 |

PLATE 179

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-138-H3

CENTER COORDINATES ..... LONG. −36.45
LAT. 13.70
NORTH DEVIATION (DEG.) ..... 355.05
SUN ANGLE ..... 71.7
SPACECRAFT ALTITUDE (KM) ..... 2670.70

N

1 CENTIMETER ≈ 11 KILOMETERS

BRALEY ..... J12
DIOPHANTUS .... F3

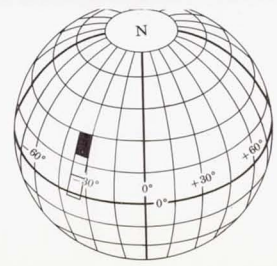
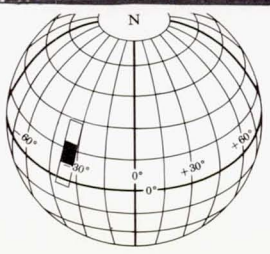



PLATE 180




BESSARION .... D6
KEPLER .....D15

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-138-H2

CENTER COORDINATES ..... LONG. –36.45
LAT. 13.70
NORTH DEVIATION (DEG.) ..... 355.05
SUN ANGLE ..... 71.7
SPACECRAFT ALTITUDE (KM) ..... 2670.70

PLATE 181

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

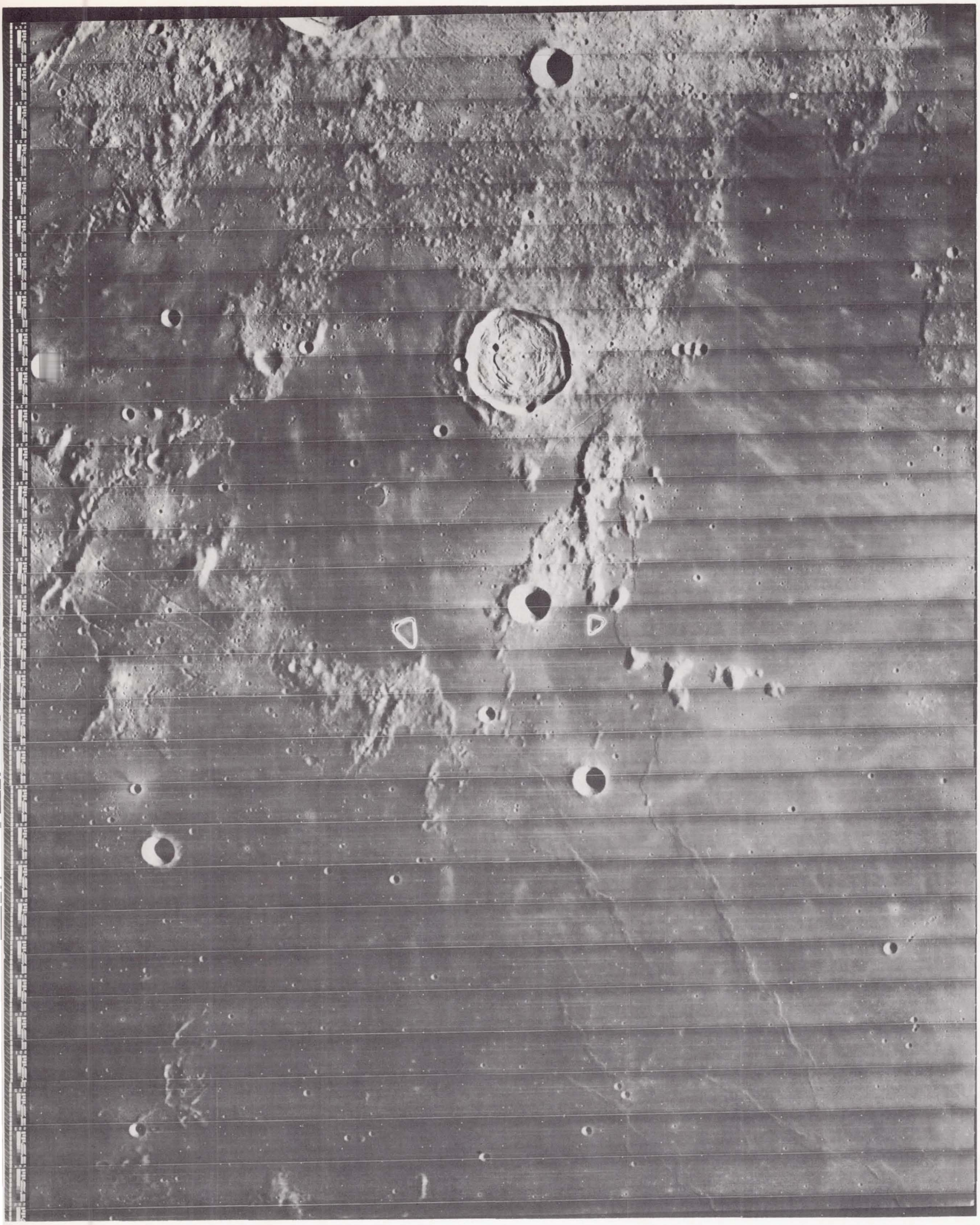


PHOTO NO. IV-138-H1

CENTER COORDINATES ..... LONG. –36.45
LAT. 13.70
NORTH DEVIATION (DEG.) ..... 355.05
SUN ANGLE ..... 71.7
SPACECRAFT ALTITUDE (KM) ..... 2670.70

N

1 CENTIMETER ≈ 11 KILOMETERS

ENCKE .... F5

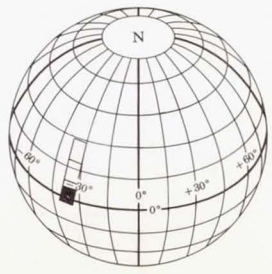
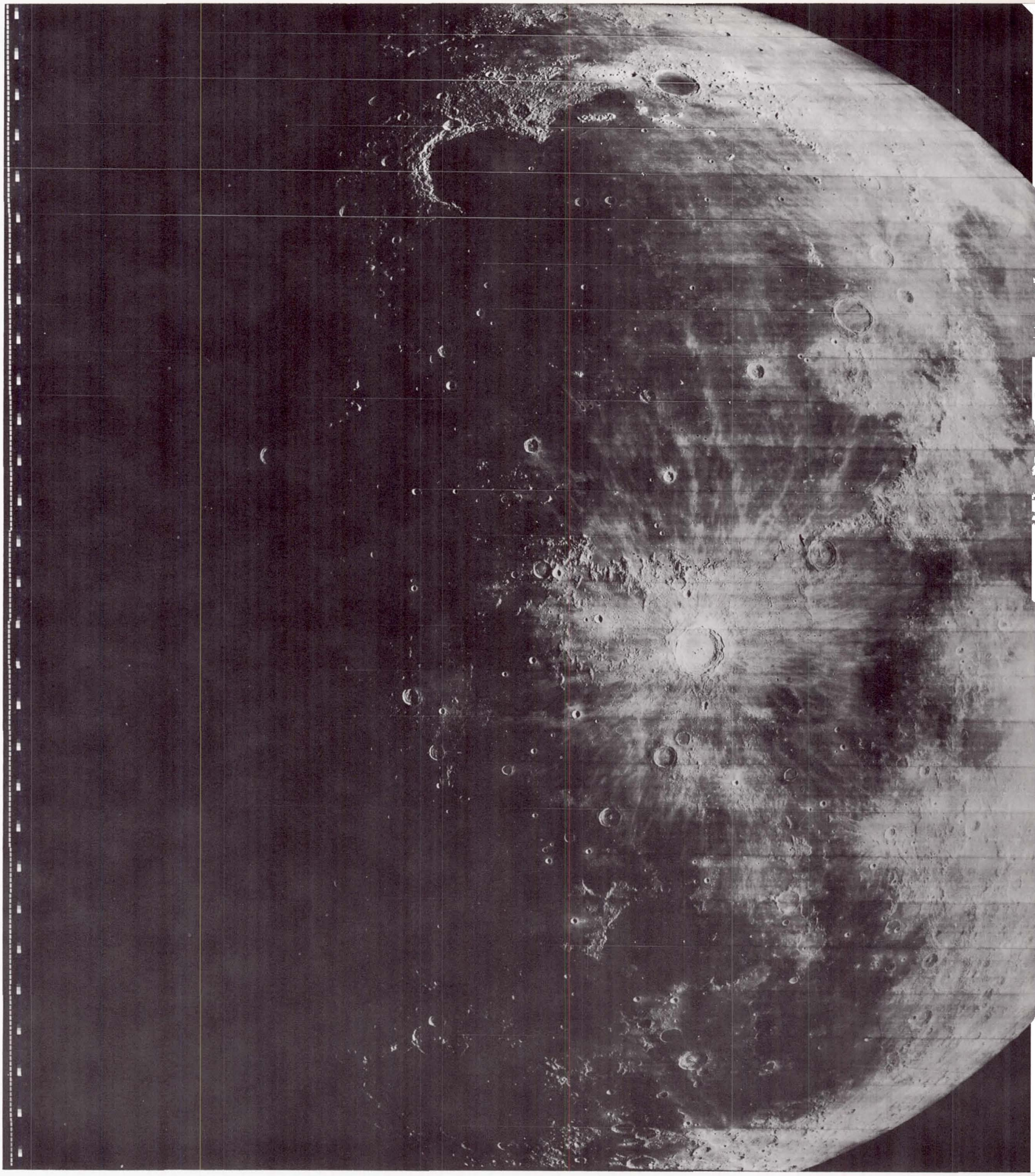
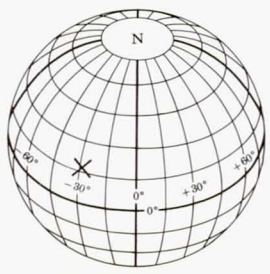



PLATE 182

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






COPERNICUS ..... H8
MARE FRIGORIS ..... G1
MARE IMBRIUM ..... J4
MARE NUBIUM ..... K13
SINUS IRIDUM ..... F3

1 CENTIMETER ≈ 85 KILOMETERS

N

PHOTO NO. IV-133-M

CENTER COORDINATES ..... LONG.–29.69
LAT... 18.74
NORTH DEVIATION (DEG.) ..... 356.52
SUN ANGLE ..... 71.5
SPACECRAFT ALTITUDE (KM) .....2673.46

PLATE 183

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

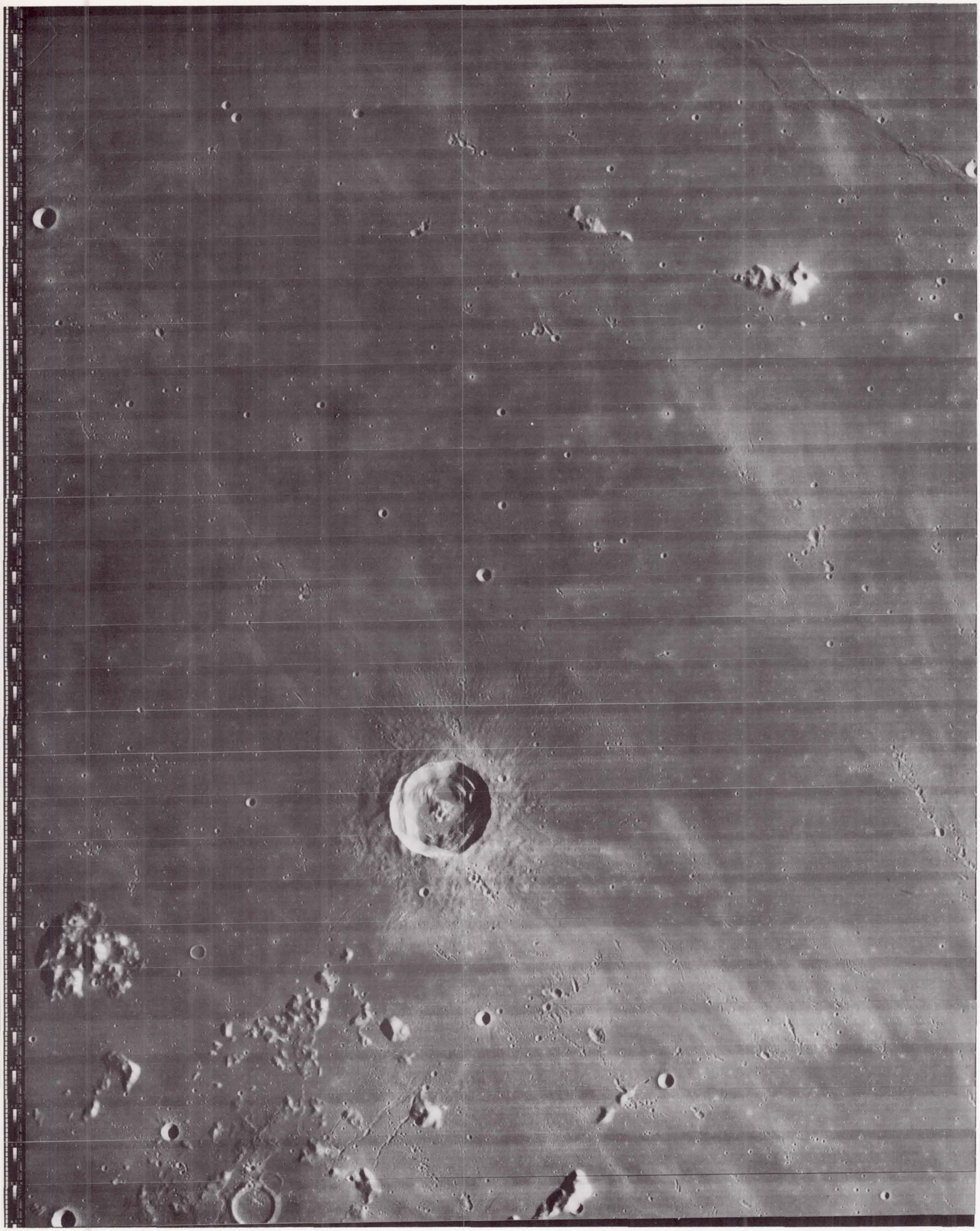


PHOTO NO. IV-133-H3

CENTER COORDINATES ..... LONG.–29.69
LAT... 18.73
NORTH DEVIATION (DEG.) ..... 356.53
SUN ANGLE ..... 71.5
SPACECRAFT ALTITUDE (KM) ..... 2673.45

N

1 CENTIMETER ≈ 11 KILOMETERS

EULER ..... G10
LA HIRE .... C4

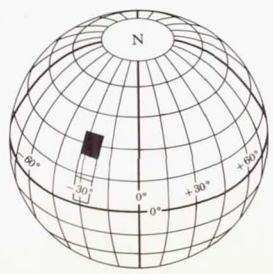
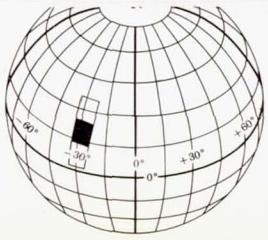



PLATE 184

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MILICHIUS ..... F14
TOBIAS MAYER .... G6

CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-133-H2

CENTER COORDINATES ..... LONG.–29.69
LAT.. 18.73
NORTH DEVIATION (DEG.) ..... 356.53
SUN ANGLE ..... 71.5
SPACECRAFT ALTITUDE (KM) ..... 2673.45

PLATE 185

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

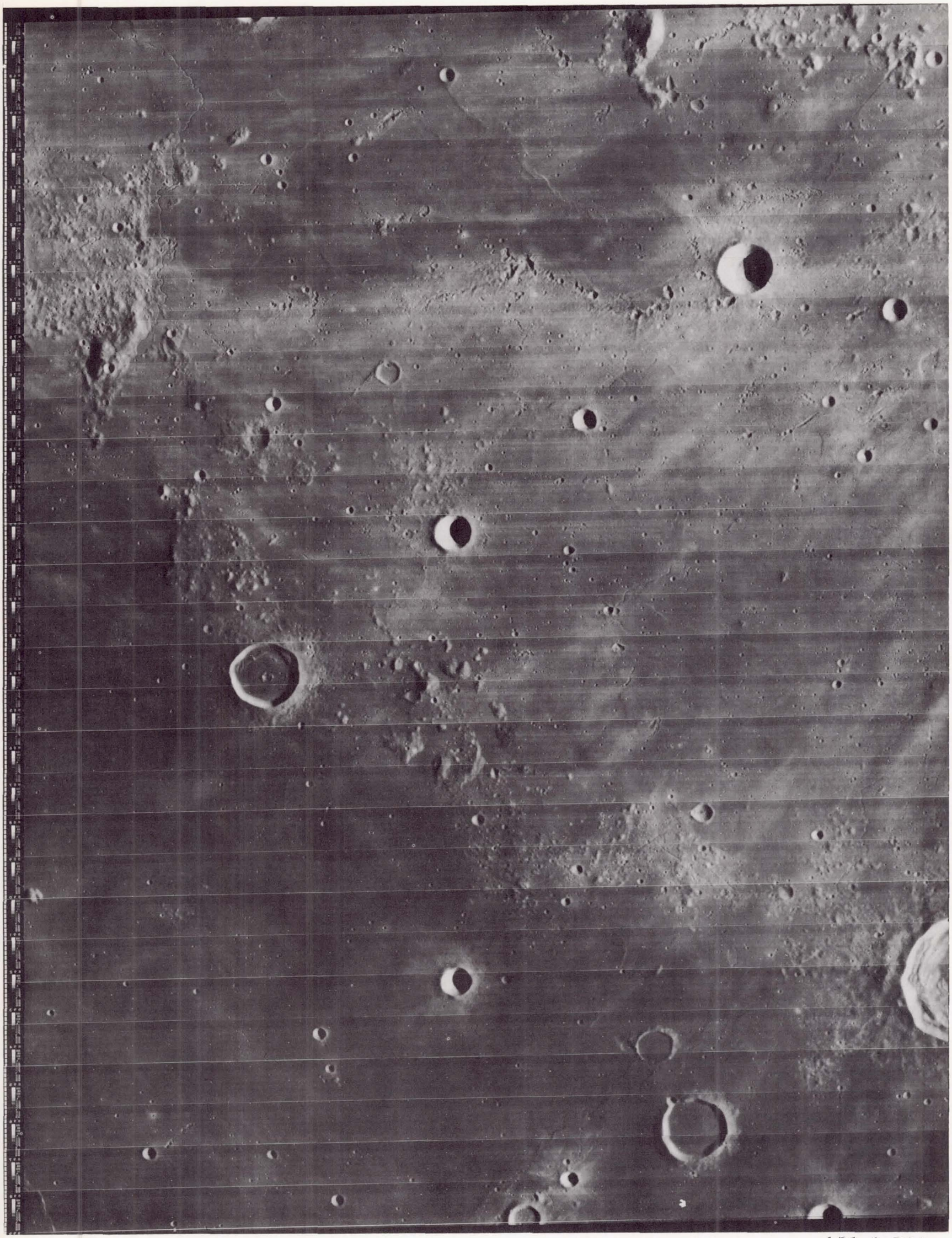


PHOTO NO. IV-133-H1

CENTER COORDINATES ..... LONG.–29.69
LAT. .. 18.73
NORTH DEVIATION (DEG.) ..... 356.53
SUN ANGLE ..... 71.5
SPACECRAFT ALTITUDE (KM) ..... 2673.45

N

1 CENTIMETER ≈11 KILOMETERS

HORTENSIUS .... C4
KUNOWSKY ..... J9
LANSBERG ..... A13

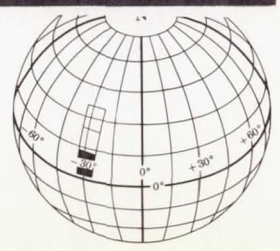
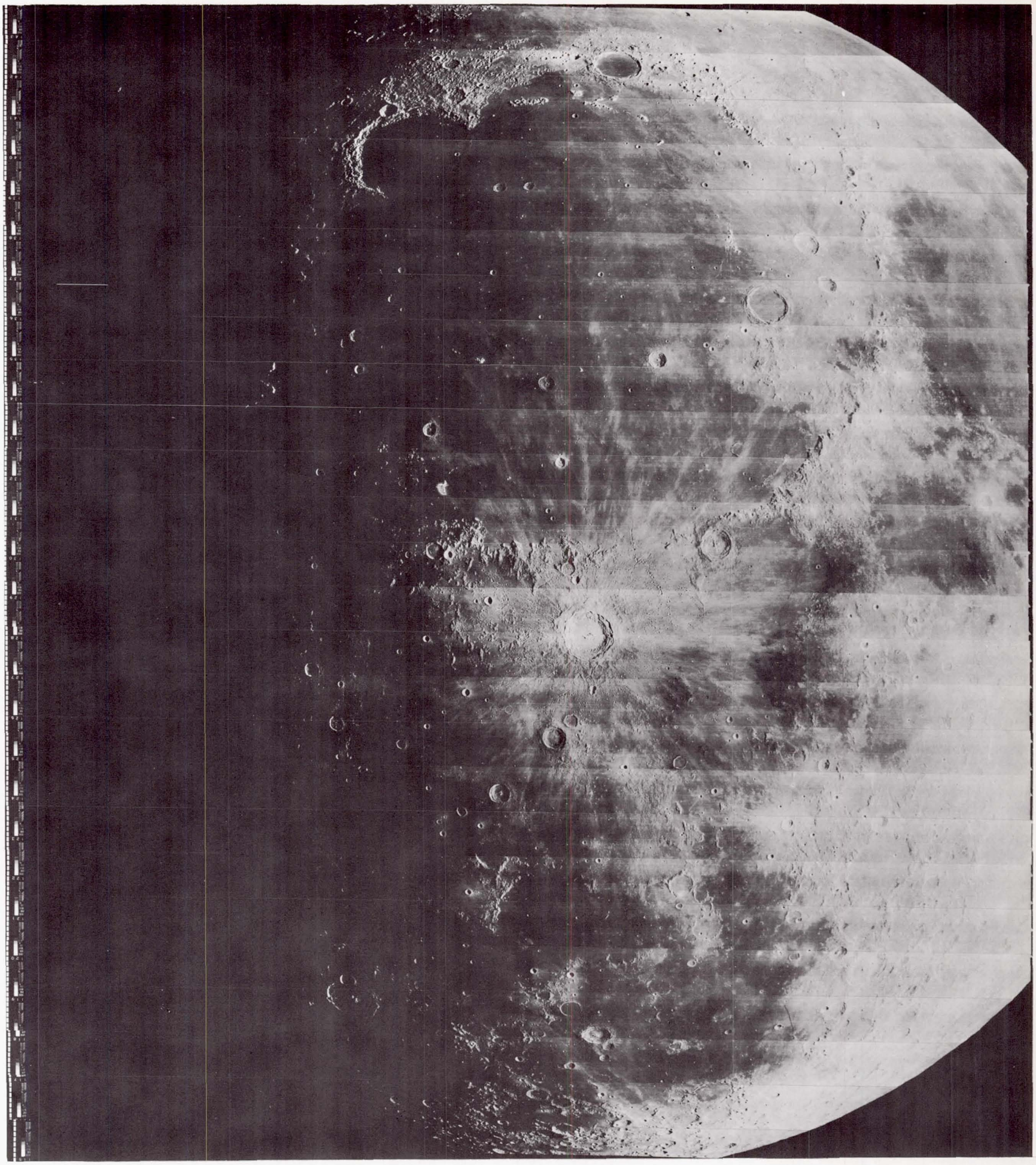
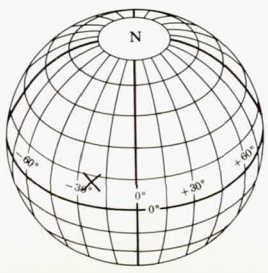



PLATE 186

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| COPERNICUS | G8 |
| MARE IMBRIUM | H4 |
| MARE SERENITATIS | M4 |
| OCEANUS PROCELLARUM | D8 |
| PLATO | G2 |
| SINUS AESTUUM | K8 |
| SINUS IRIDUM | E2 |

1 CENTIMETER ≈ 85 KILOMETERS

N

PHOTO NO. IV-126-M

| | |
|---|---|
| CENTER COORDINATES | LONG. −23.05 |
| | LAT. 12.87 |
| NORTH DEVIATION (DEG.) | 354.95 |
| SUN ANGLE | 70.5 |
| SPACECRAFT ALTITUDE (KM) | 2677.28 |

PLATE 187

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

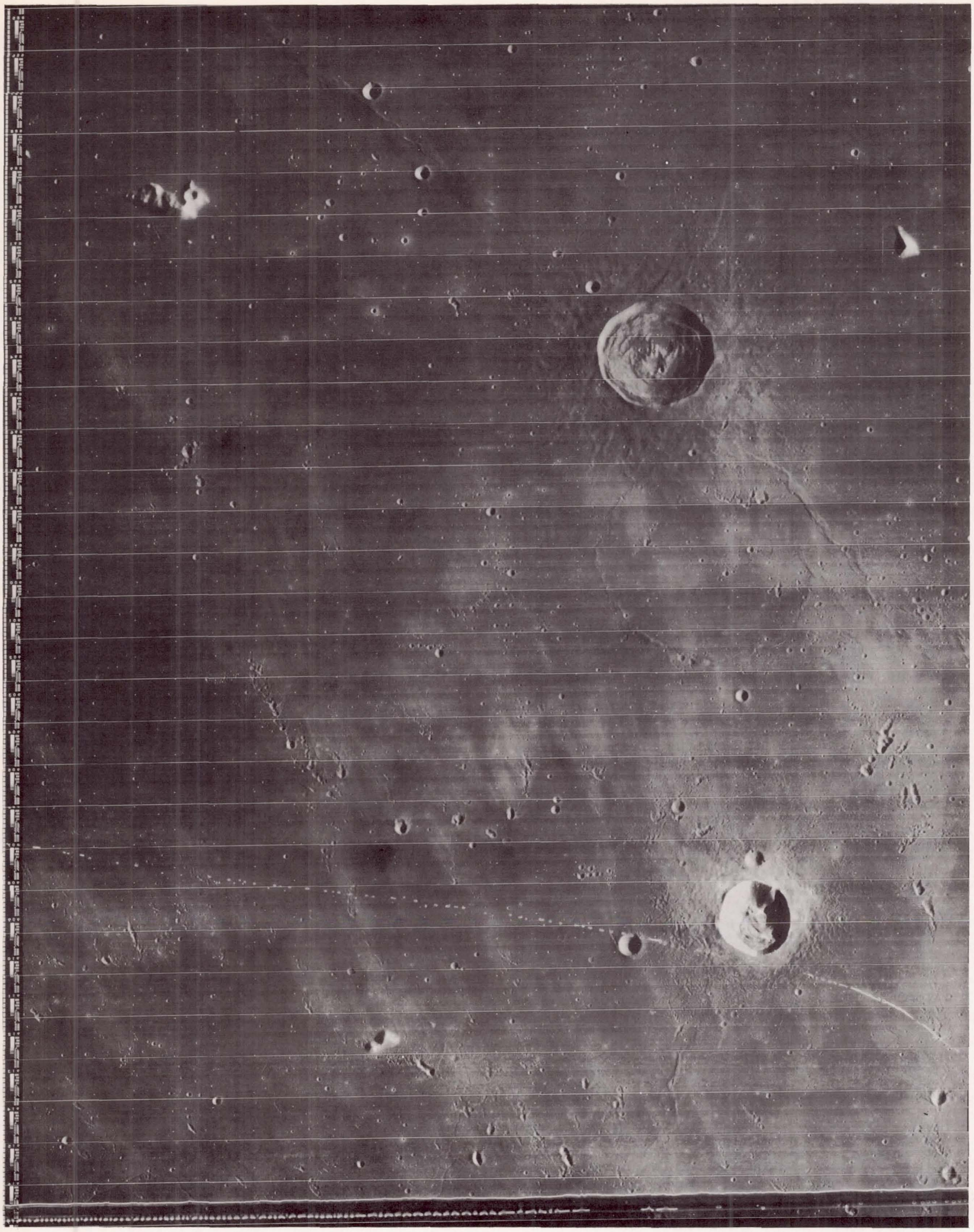


PHOTO NO. IV-126-H3

CENTER COORDINATES ..... LONG. –23.05
LAT. 12.86
NORTH DEVIATION (DEG.) ..... 354.95
SUN ANGLE ..... 70.5
SPACECRAFT ALTITUDE (KM) ..... 2677.28

N

1 CENTIMETER ≈ 11 KILOMETERS

LA HIRE ..... K3
LAMBERT .... D5
PYTHEAS .... C12

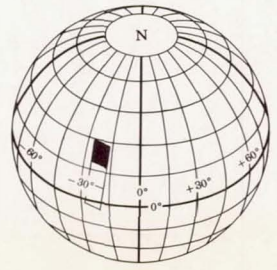
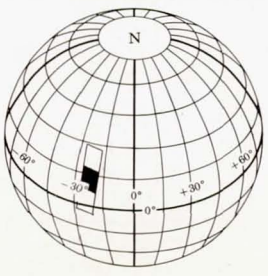



PLATE 188




COPERNICUS ..... M12
DRAPER ..... J1
GAY LUSSAC ..... K6
MONTES CARPATUS .... F5
TOBIAS MAYER C ..... C9

1 CENTIMETER ≈ 11 KILOMETERS

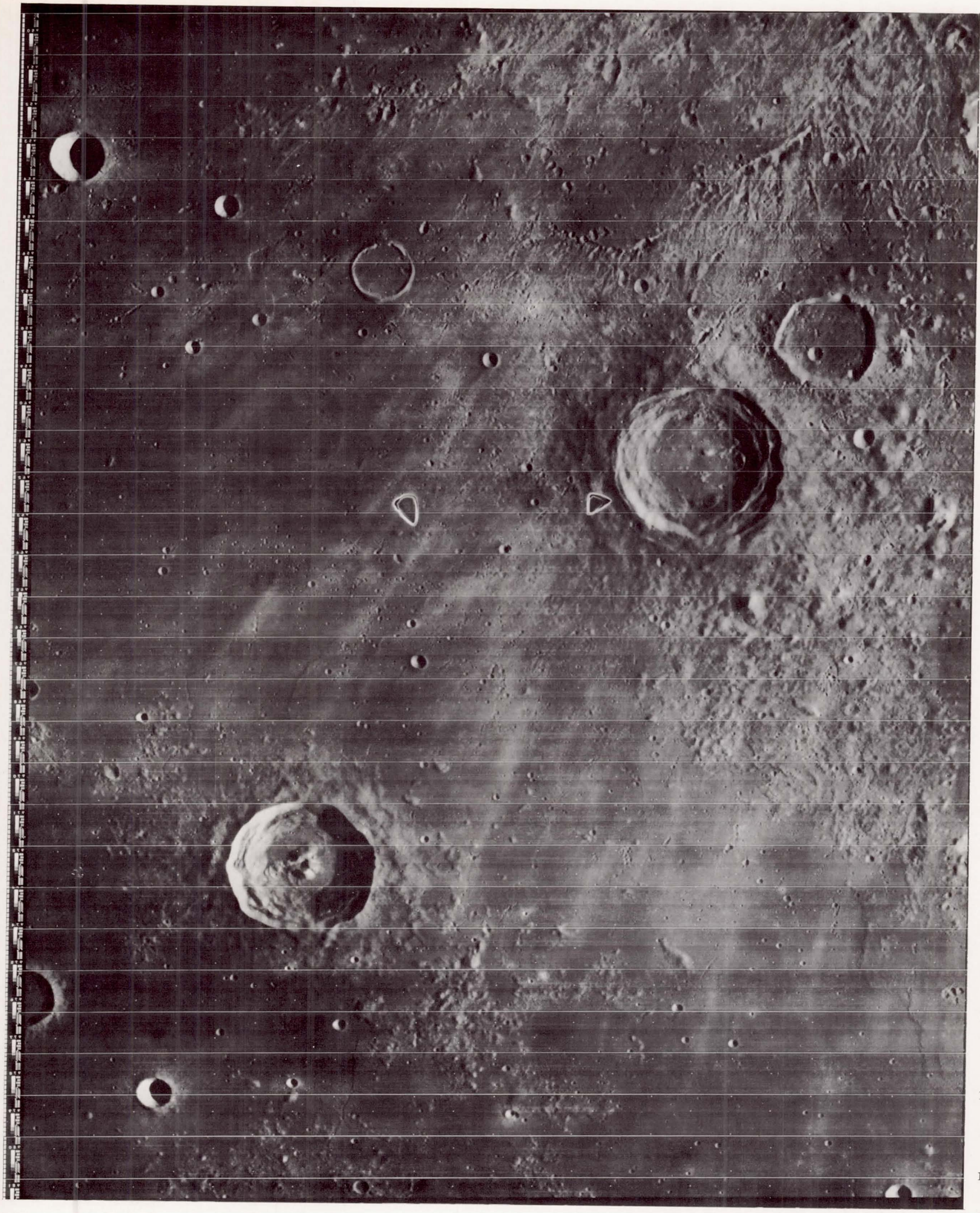
N

PHOTO NO. IV-126-H2

CENTER COORDINATES ..... LONG. –23.05
LAT. 12.86
NORTH DEVIATION (DEG.) ..... 354.95
SUN ANGLE ..... 70.5
SPACECRAFT ALTITUDE (KM) ..... 2677.28

PLATE 189

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-126-H1

CENTER COORDINATES ..... LONG.–23.05
LAT. 12.86
NORTH DEVIATION (DEG.) ..... 354.95
SUN ANGLE ..... 70.5
SPACECRAFT ALTITUDE (KM) ..... 2677.28

N

1 CENTIMETER ≈ 11 KILOMETERS

HORTENSIUS .... M2
LANSBERG ..... J11
REINHOLD ..... D6

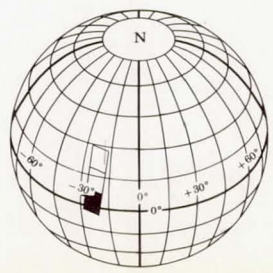
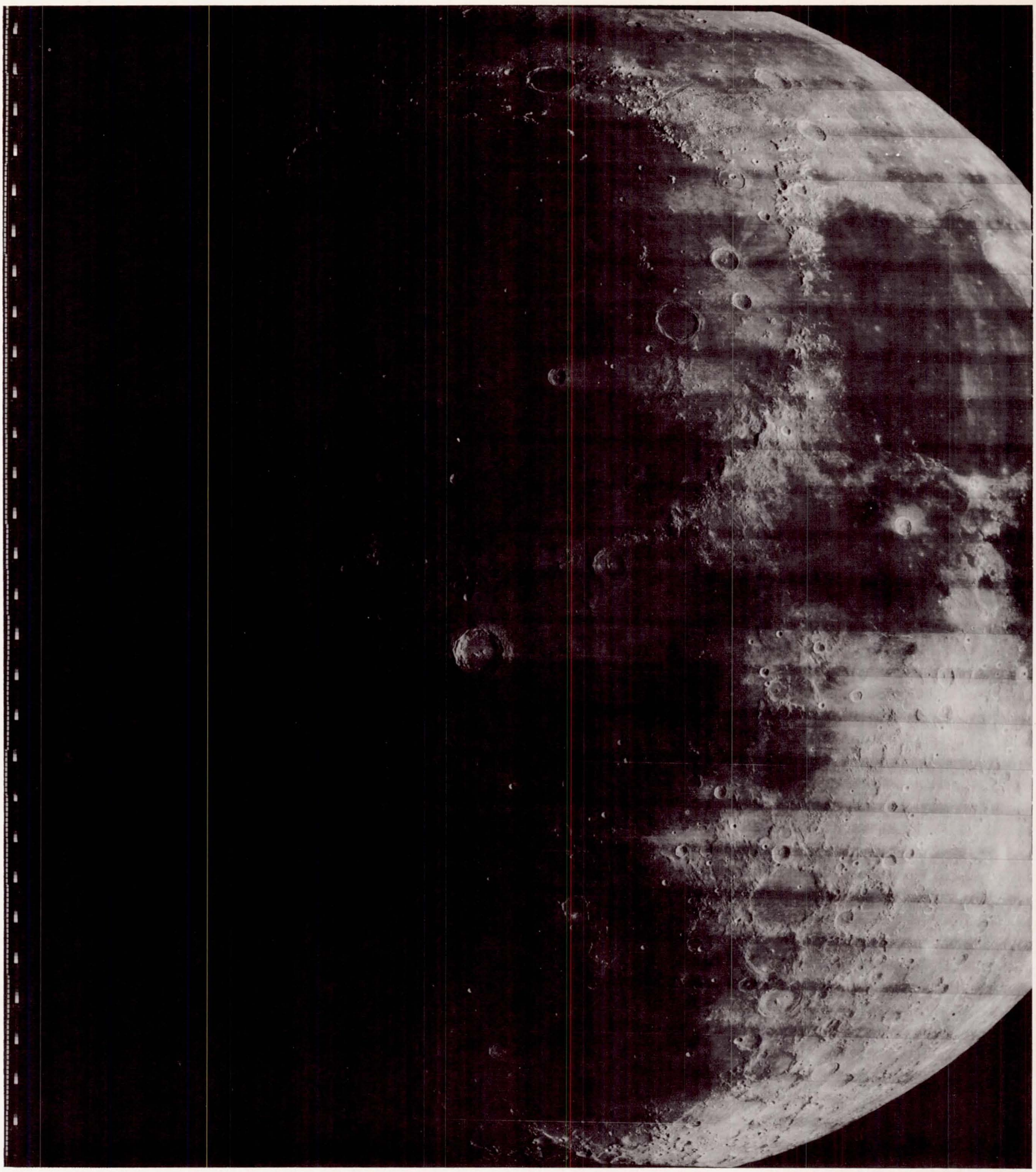
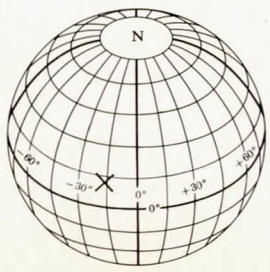



PLATE 190

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE NUBIUM ..... H12
MARE IMBRIUM ..... G3
MARE SERENITATIS .... L4
MARE VAPORUM ..... L7
SINUS AESTUUM ..... H8

1 CENTIMETER ≈ 85 KILOMETERS




PHOTO NO. IV-121-M

CENTER COORDINATES ..... LONG. −16.79
LAT. 13.81
NORTH DEVIATION (DEG.) ..... 354.78
SUN ANGLE ..... 70.4
SPACECRAFT ALTITUDE (KM) ..... 2681.82

PLATE 191

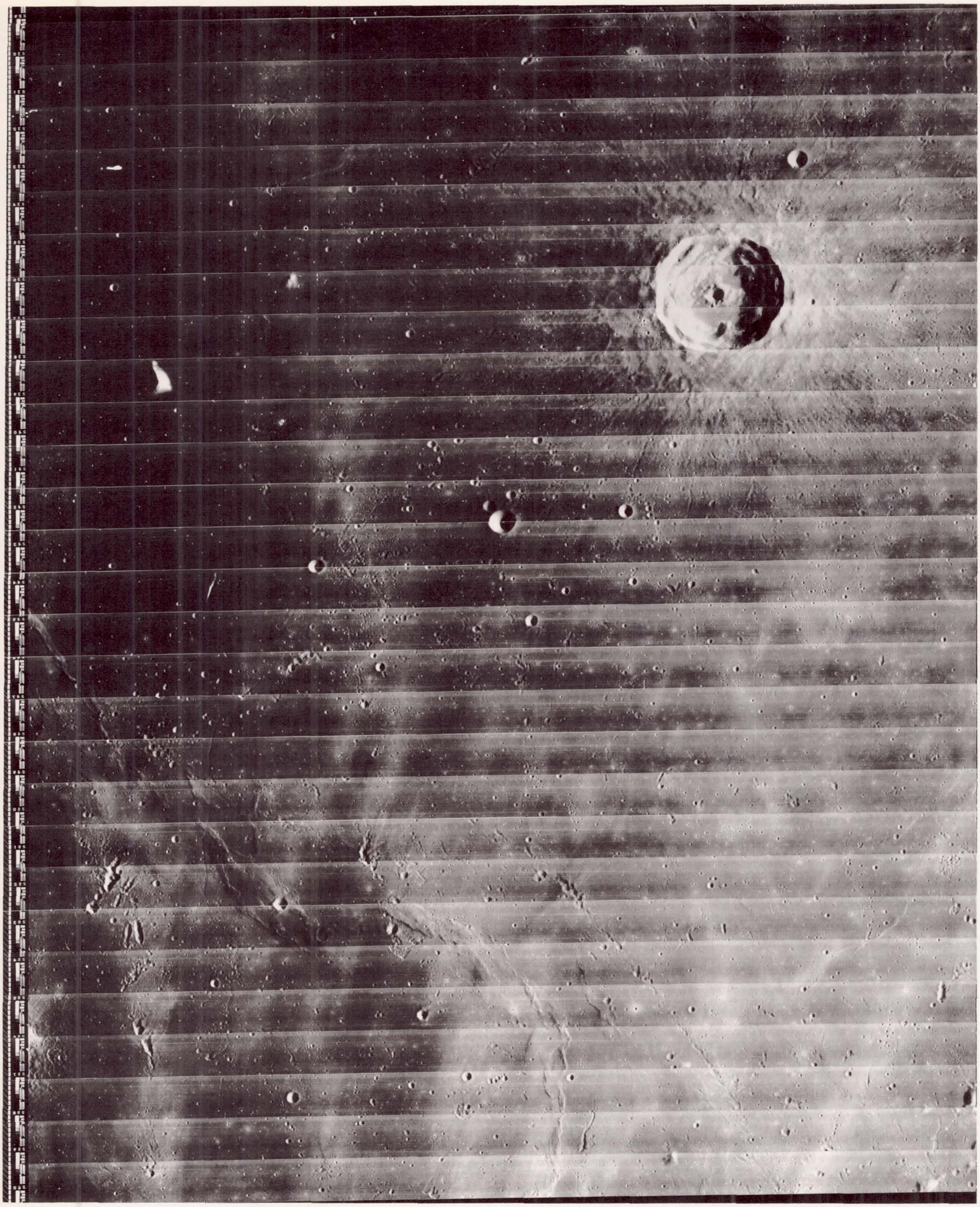


PHOTO NO. IV-121-H3

CENTER COORDINATES ..... LONG. −16.79
LAT. 13.81
NORTH DEVIATION (DEG.) ..... 354.78
SUN ANGLE ..... 70.4
SPACECRAFT ALTITUDE (KM) ..... 2681.82

N

1 CENTIMETER ≈ 11 KILOMETERS

TIMOCHARIS ..... D4

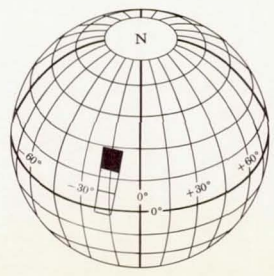
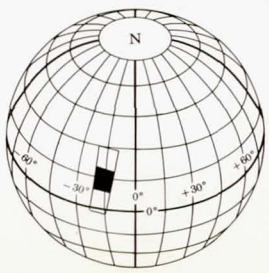



PLATE 192

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




COPERNICUS ... B14
GAY-LUSSAC ..... A8
STADIUS ..... L12

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-121-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −16.79 |
| | LAT. 13.81 |
| NORTH DEVIATION (DEG.) ..... | 354.78 |
| SUN ANGLE ..... | 70.4 |
| SPACECRAFT ALTITUDE (KM) ..... | 2681.82 |

PLATE 193

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

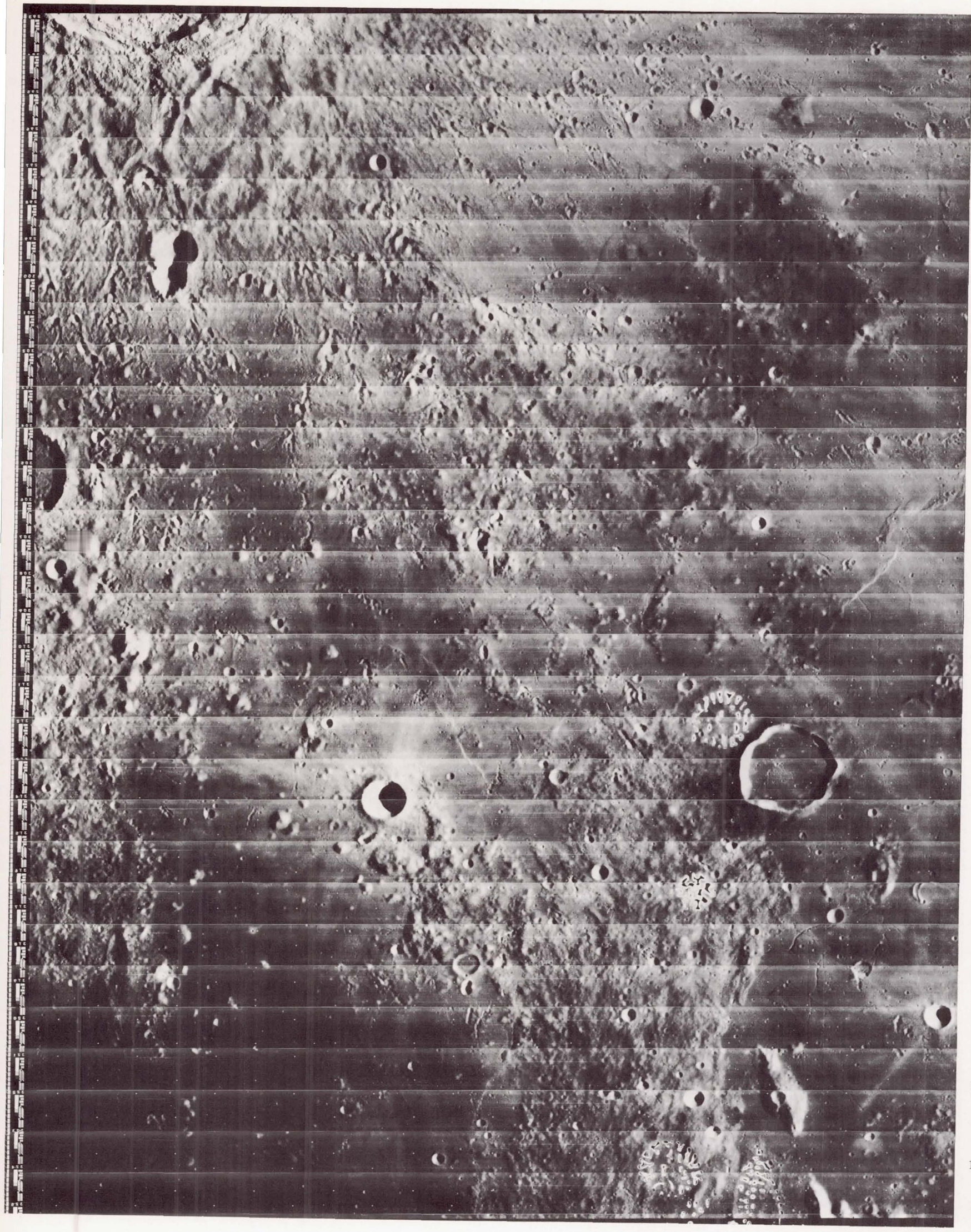


PHOTO NO. IV-121-H1

CENTER COORDINATES ..... LONG. –16.79
LAT. 13.81
NORTH DEVIATION (DEG.) ..... 354.78
SUN ANGLE ..... 70.4
SPACECRAFT ALTITUDE (KM) ..... 2681.82

N

1 CENTIMETER ≈ 11 KILOMETERS

GAMBART ..... C10
PAUTH ..... K3
REINHOLD B .... M6

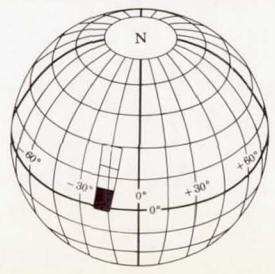
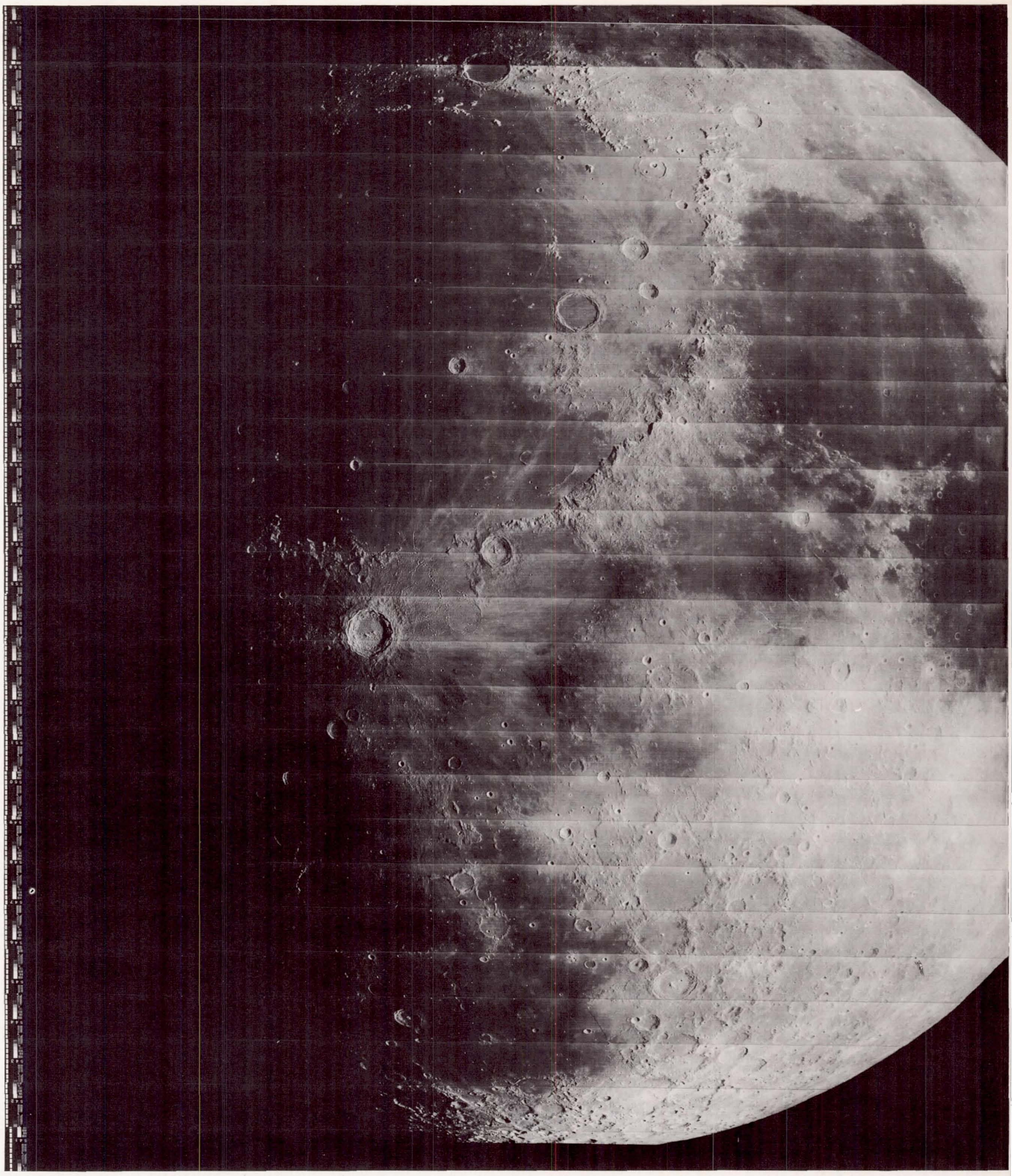
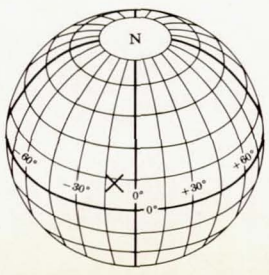



PLATE 194

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE NUBIUM ..... G13
MARE IMBRIUM ..... E4
MARE SERENITATIS ..... L5
MARE VAPORUM ..... J7
SINUS AESTUUM ..... G9

1 CENTIMETER ≈ 85 KILOMETERS

N

PHOTO NO. IV-114-M

CENTER COORDINATES ..... LONG. −10.97
LAT. 13.47
NORTH DEVIATION (DEG.) ..... 355.56
SUN ANGLE ..... 70.7
SPACECRAFT ALTITUDE (KM) ..... 2687.21

PLATE 195

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

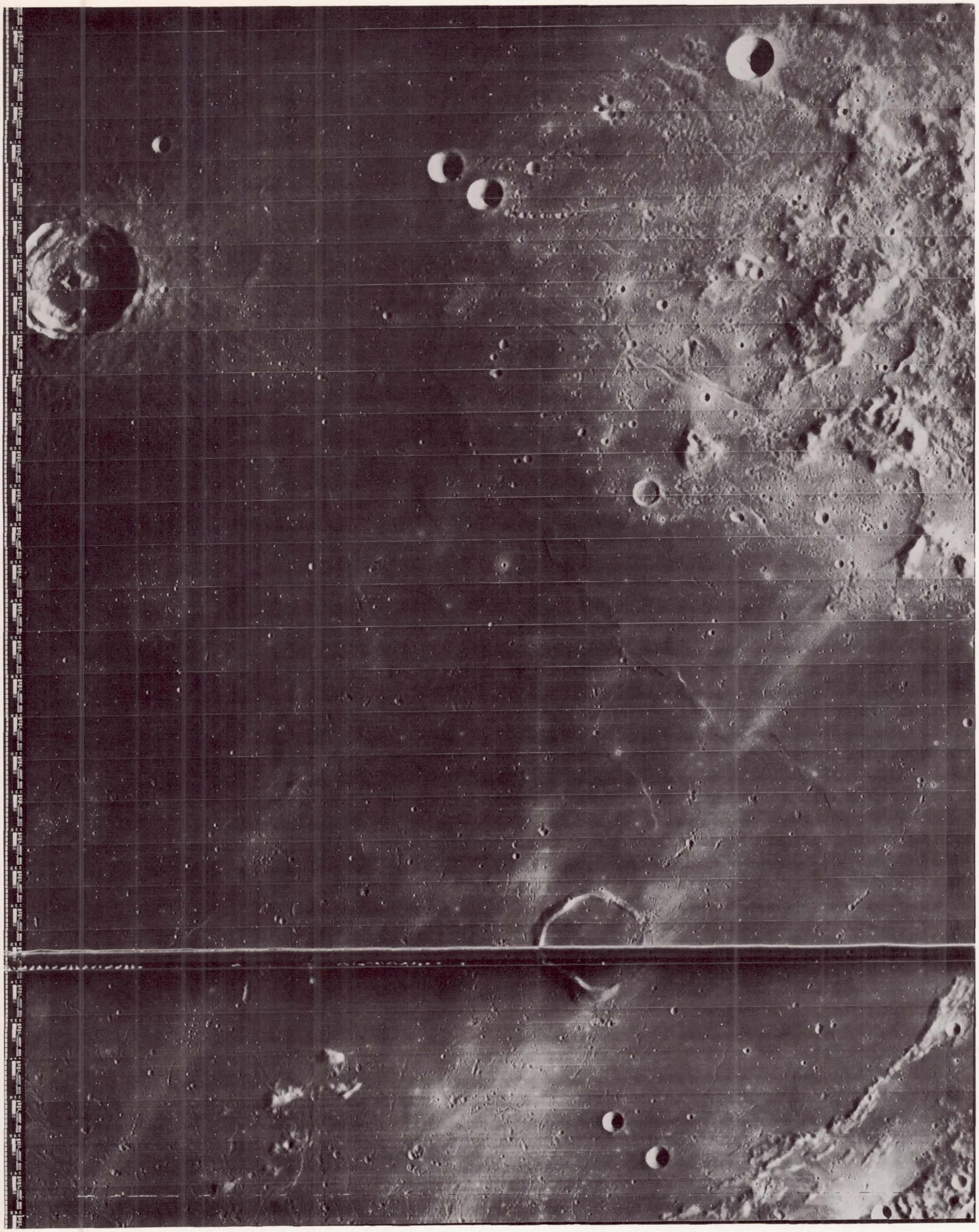


PHOTO NO. IV-114-H3

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | −10.97 |
| | LAT. | 13.46 |
| NORTH DEVIATION (DEG.) | | 355.55 |
| SUN ANGLE | | 70.7 |
| SPACECRAFT ALTITUDE (KM) | | 2687.21 |

N

1 *CENTIMETER* ≈ *11 KILOMETERS*

| | |
|---|---|
| BEER | G3 |
| FEUILLEE | G3 |
| TIMOCHARIS | M4 |
| WALLACE | E12 |

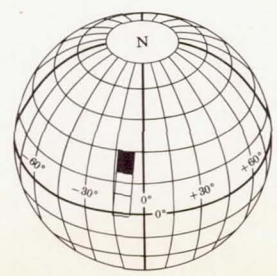
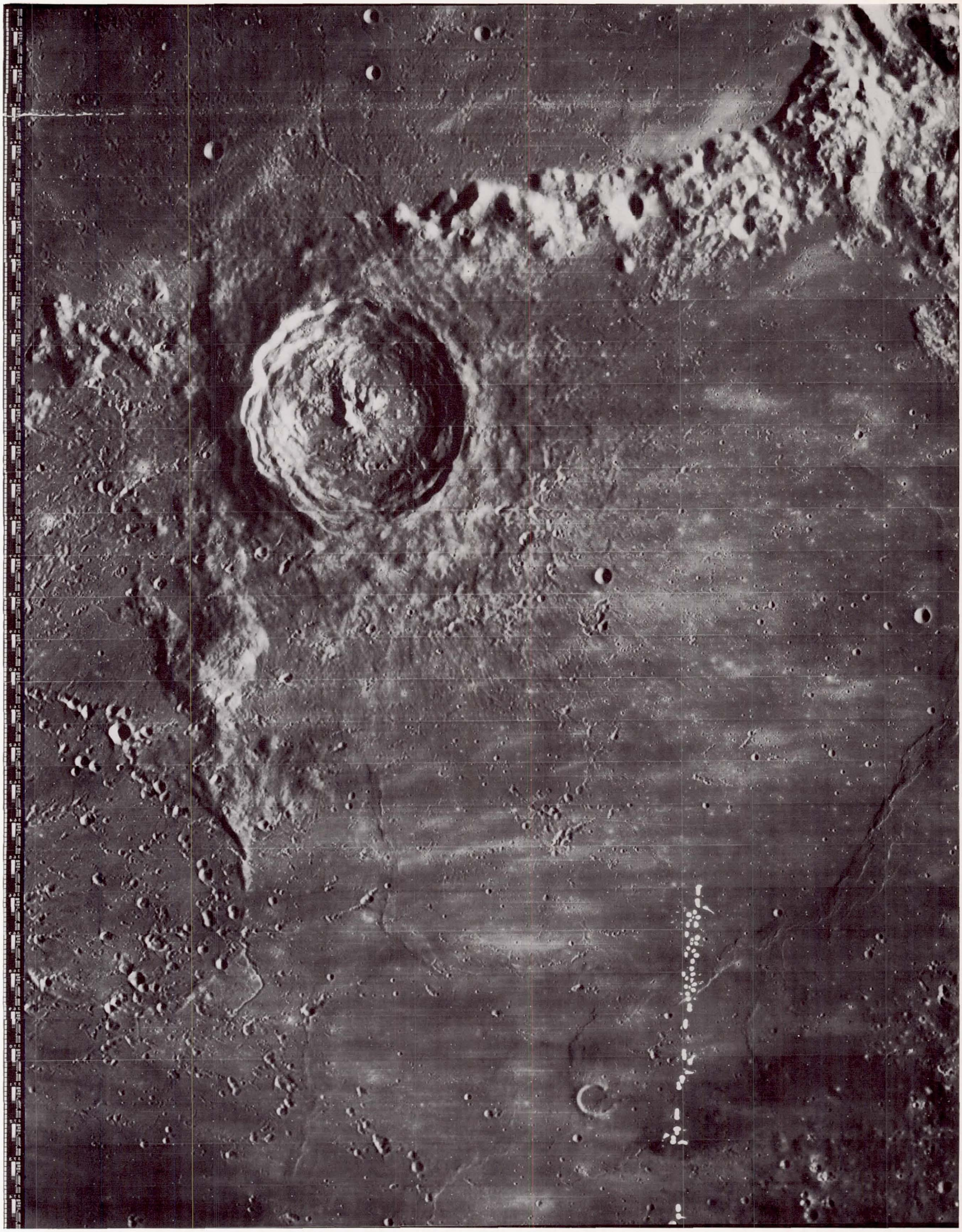
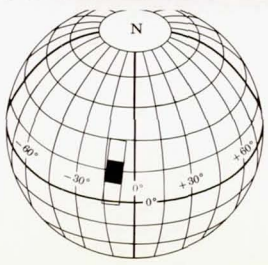



PLATE 196

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ERATOSTHENES ..... E5
STADIUS ..... B11

1 CENTIMETER ≈ 11 KILOMETERS

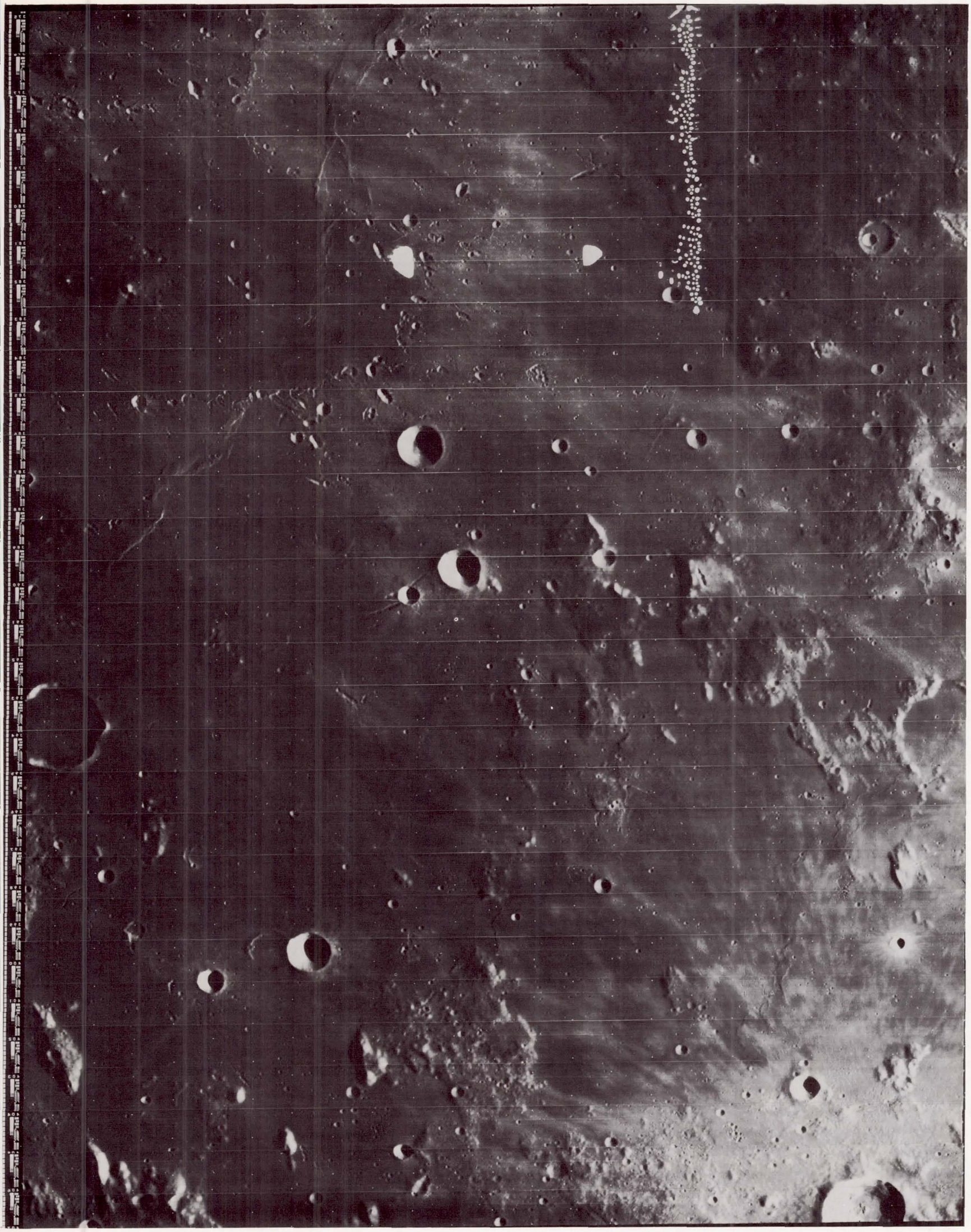
N

PHOTO NO. IV-114-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −10.97 |
| | LAT. 13.46 |
| NORTH DEVIATION (DEG.) ..... | 355.55 |
| SUN ANGLE ..... | 70.7 |
| SPACECRAFT ALTITUDE (KM) ..... | 2687.21 |

PLATE 197

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-114-H1

CENTER COORDINATES ..... LONG. −10.97
LAT. 13.46
NORTH DEVIATION (DEG.) ..... 355.55
SUN ANGLE ..... 70.7
SPACECRAFT ALTITUDE (KM) .....2687.21

N

1 CENTIMETER ≈ 11 KILOMETERS

GAMBART .... M9
LALANDE ..... B15

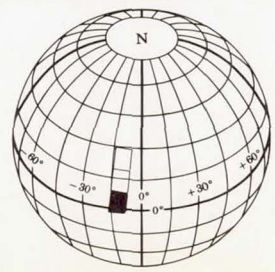
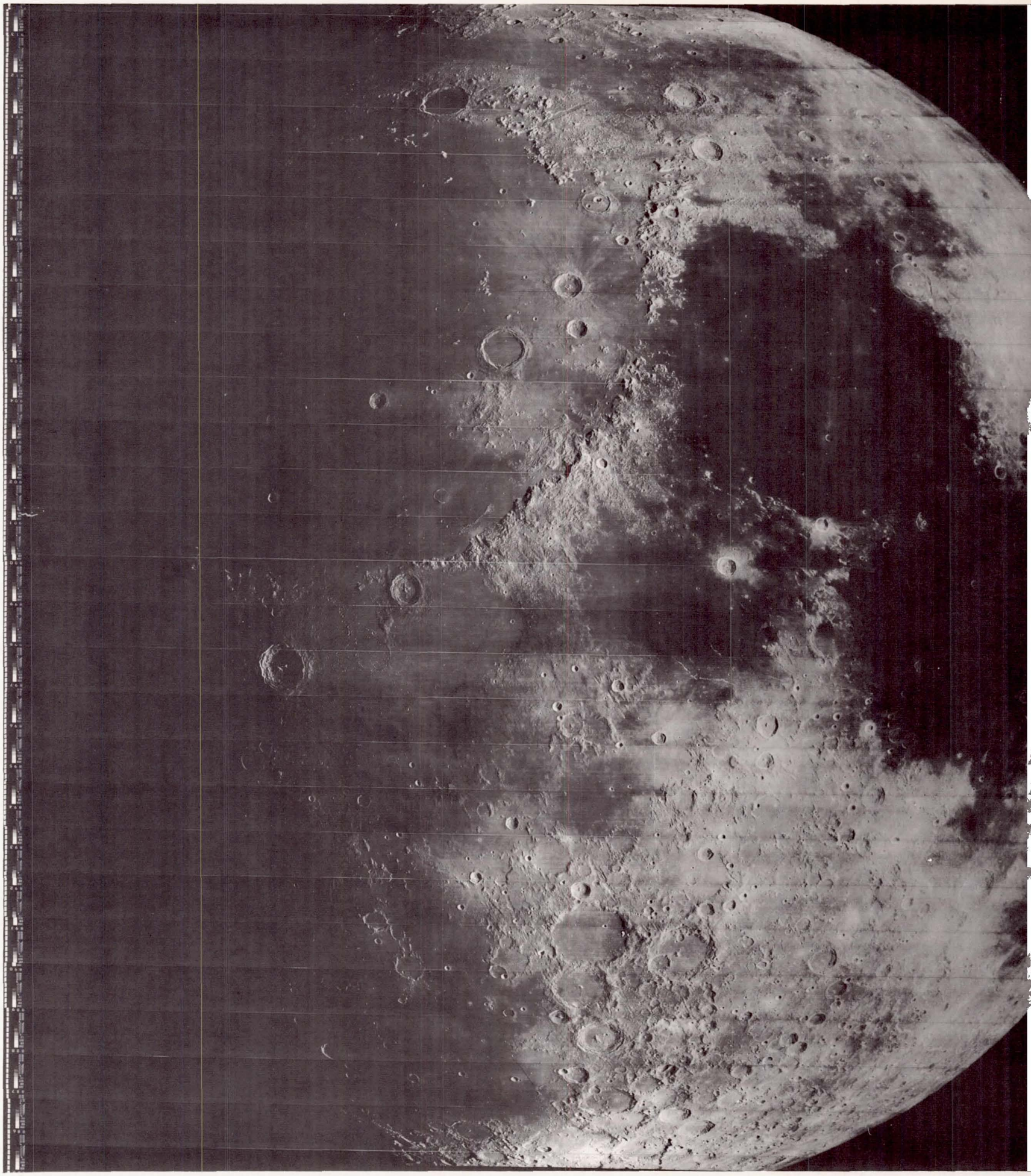
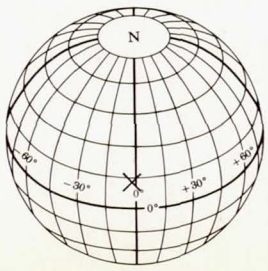



PLATE 198

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ARCHIMEDES ..... F4
MARE FRIGORIS ..... G2
MARE SERENITATIS .. K5
MARE VAPORUM ..... H5

1 CENTIMETER≈ 85 KILOMETERS

N

PHOTO NO. IV-109-M

CENTER COORDINATES ..... LONG. −3.58
LAT. 13.79
NORTH DEVIATION (DEG.) ..... 355.02
SUN ANGLE ..... 69.5
SPACECRAFT ALTITUDE (KM) ..... 2693.04

PLATE 199

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

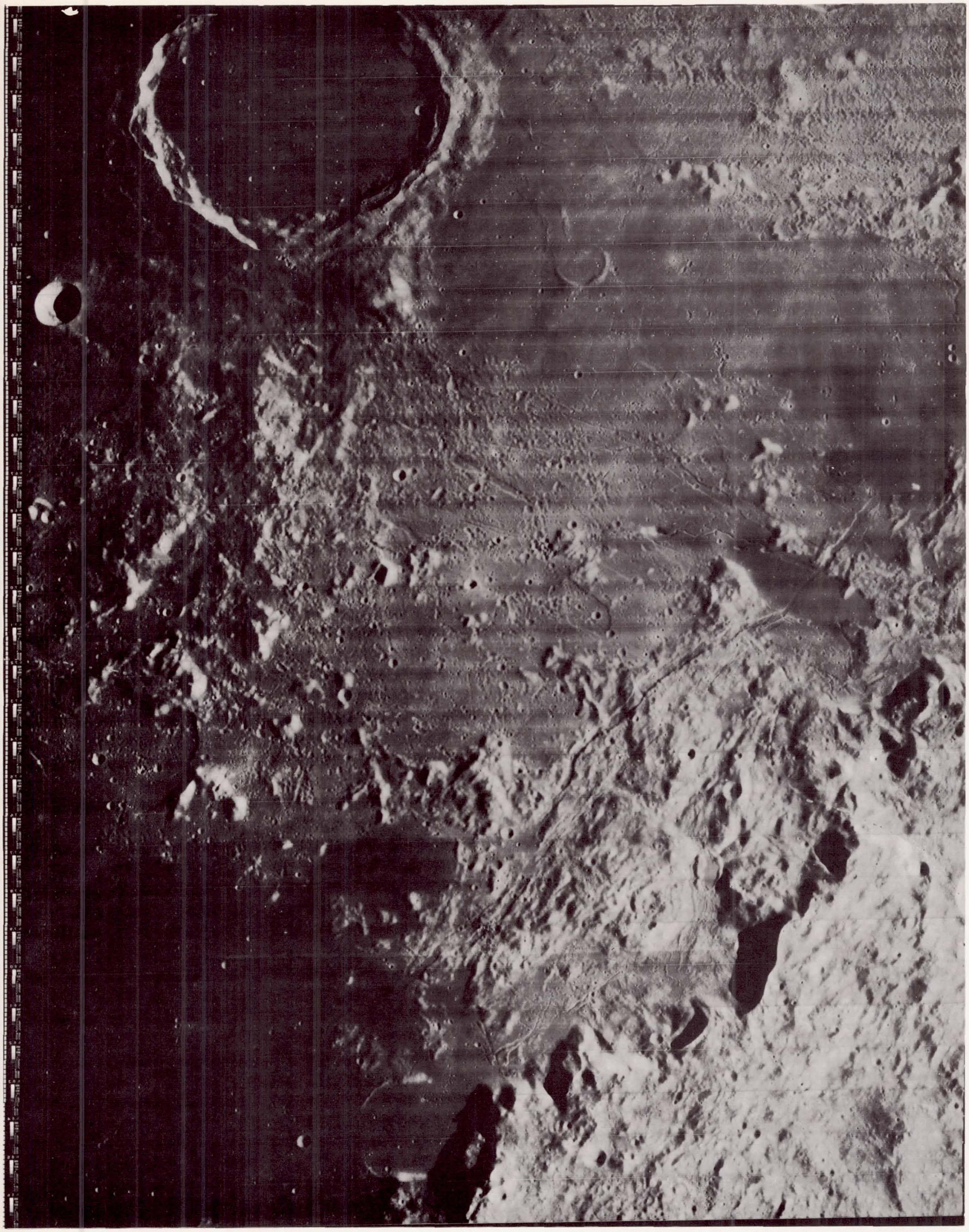


PHOTO NO. IV-109-H3

CENTER COORDINATES ..... LONG. −3.58
LAT. 13.79
NORTH DEVIATION (DEG.) ..... 355.02
SUN ANGLE ..... 69.5
SPACECRAFT ALTITUDE (KM) ..... 2693.03

N

1 CENTIMETER ≈ 11 KILOMETERS

ARCHIMEDES ..... J2
RIMA BRADLEY .. E9

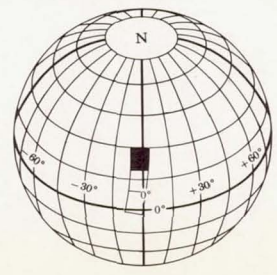
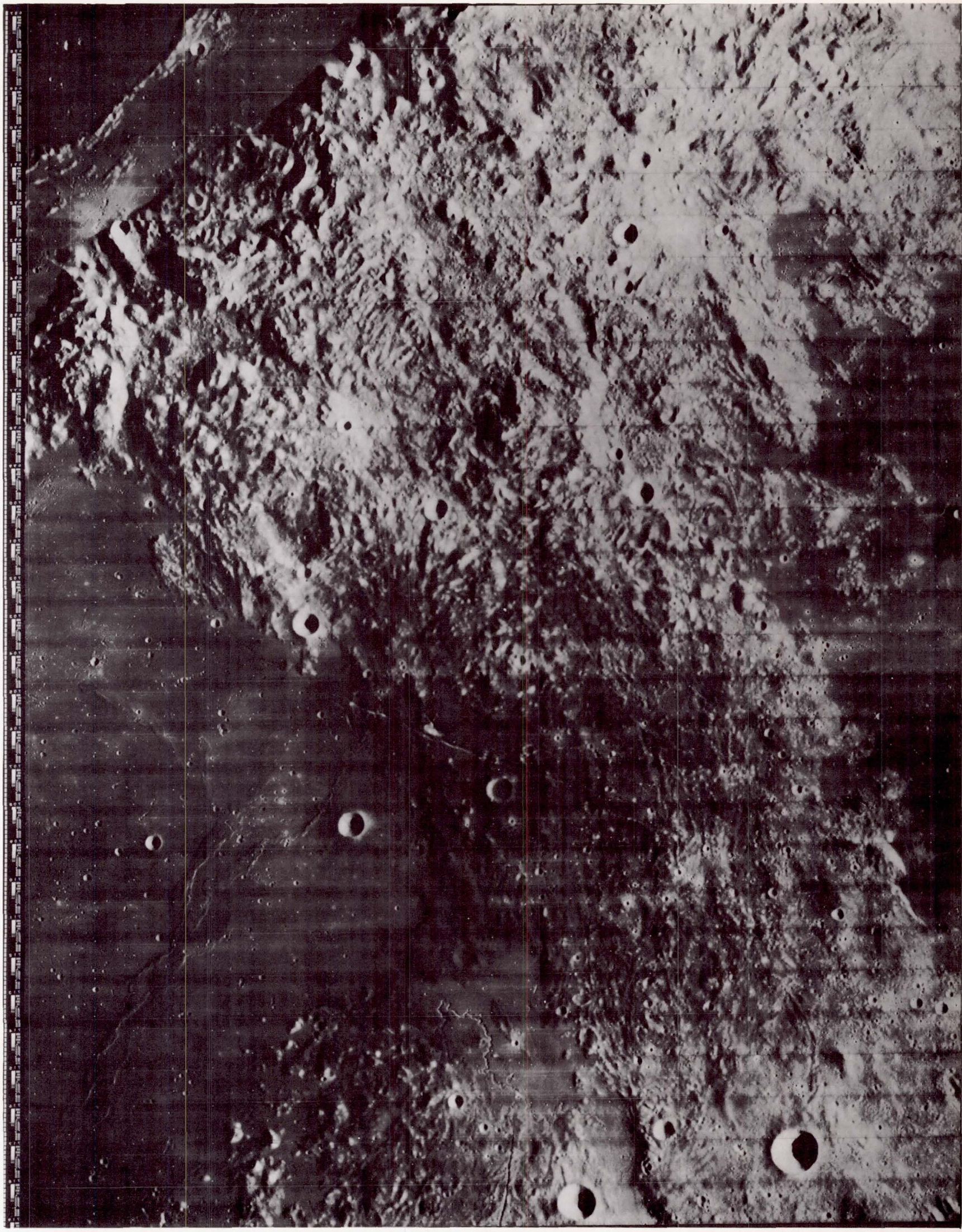
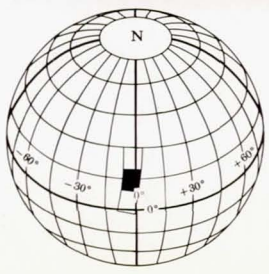



PLATE 200

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARCO POLO .... L4

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-109-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −3.58 |
| | LAT. 13.79 |
| NORTH DEVIATION (DEG.) ..... | 355.02 |
| SUN ANGLE ..... | 69.47 |
| SPACECRAFT ALTITUDE (KM) ..... | 2693.03 |

PLATE 201

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

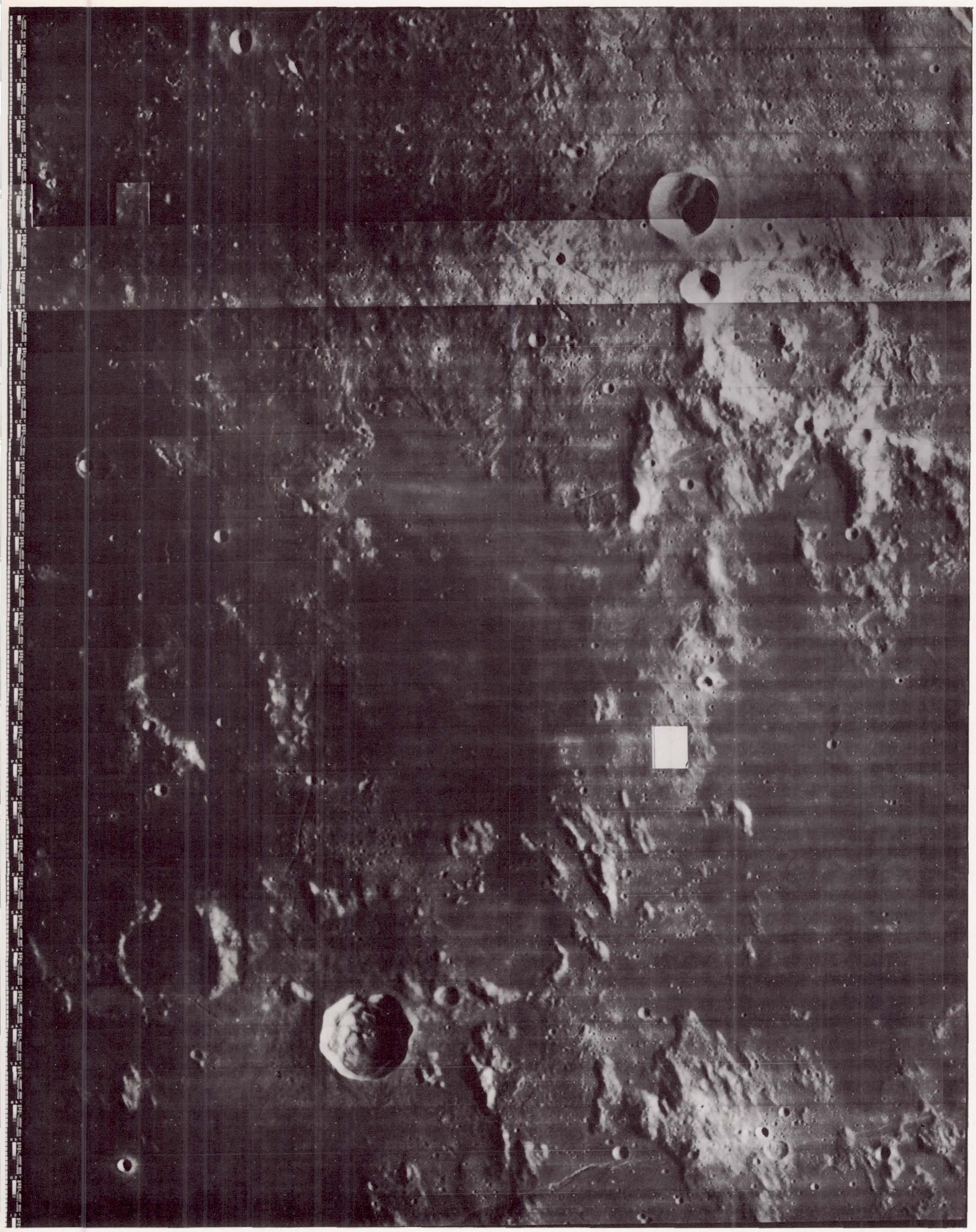


PHOTO NO. IV-109-H1

CENTER COORDINATES ..... LONG. −3.58
LAT. 13.79
NORTH DEVIATION (DEG.) ..... 355.02
SUN ANGLE ..... 69.47
SPACECRAFT ALTITUDE (KM) ..... 2693.03

N

1 CENTIMETER ≈ 11 KILOMETERS

BODE ..... D3
MOSTING ..... H13
MURCHISON ..... A4
PALLAS ..... C4
SCHROTER ..... K9
SOMMERING ... K12

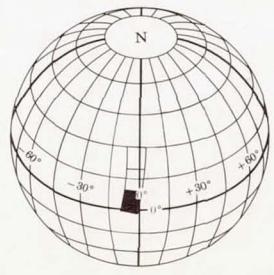
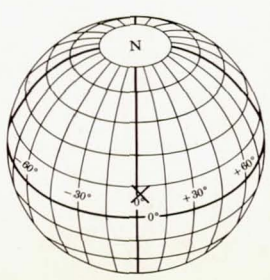



PLATE 202

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... G1
MARE IMBRIUM ..... D4
MARE SERENITATIS ..... J5
MARE TRANQUILLITATIS ... L8
MARE VAPORUM ..... G8

1 CENTIMETER ≈ 85 KILOMETERS

N

PHOTO NO. IV-102-M

CENTER COORDINATES ..... LONG. 3.63
LAT. 12.96
NORTH DEVIATION (DEG.) ..... 355.23
SUN ANGLE ..... 68.4
SPACECRAFT ALTITUDE (KM) ..... 2699.14

PLATE 203

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-102-H3

CENTER COORDINATES ..... LONG. 3.63
LAT. 12.96
NORTH DEVIATION (DEG.) ..... 355.23
SUN ANGLE ..... 68.4
SPACECRAFT ALTITUDE (KM) ..... 2699.13

N

1 CENTIMETER ≈ 11 KILOMETERS

ARATUS ..... F8
CONON ..... J11

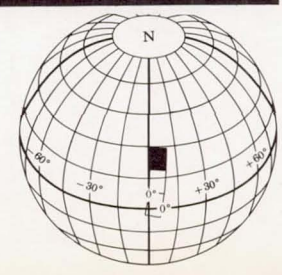
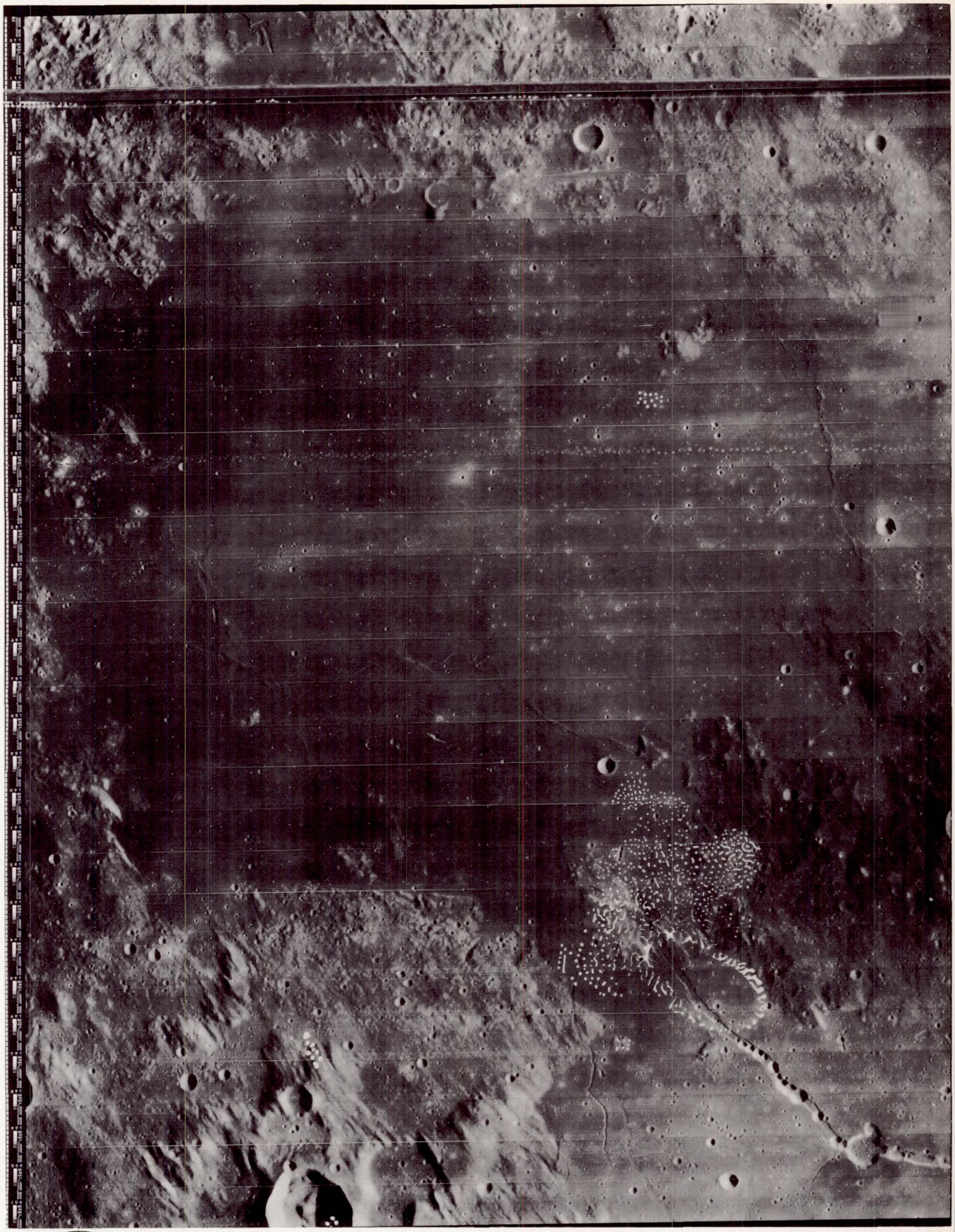



PLATE 204

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






UKERT .....D15

1 CENTIMETER ≈ 11 KILOMETERS

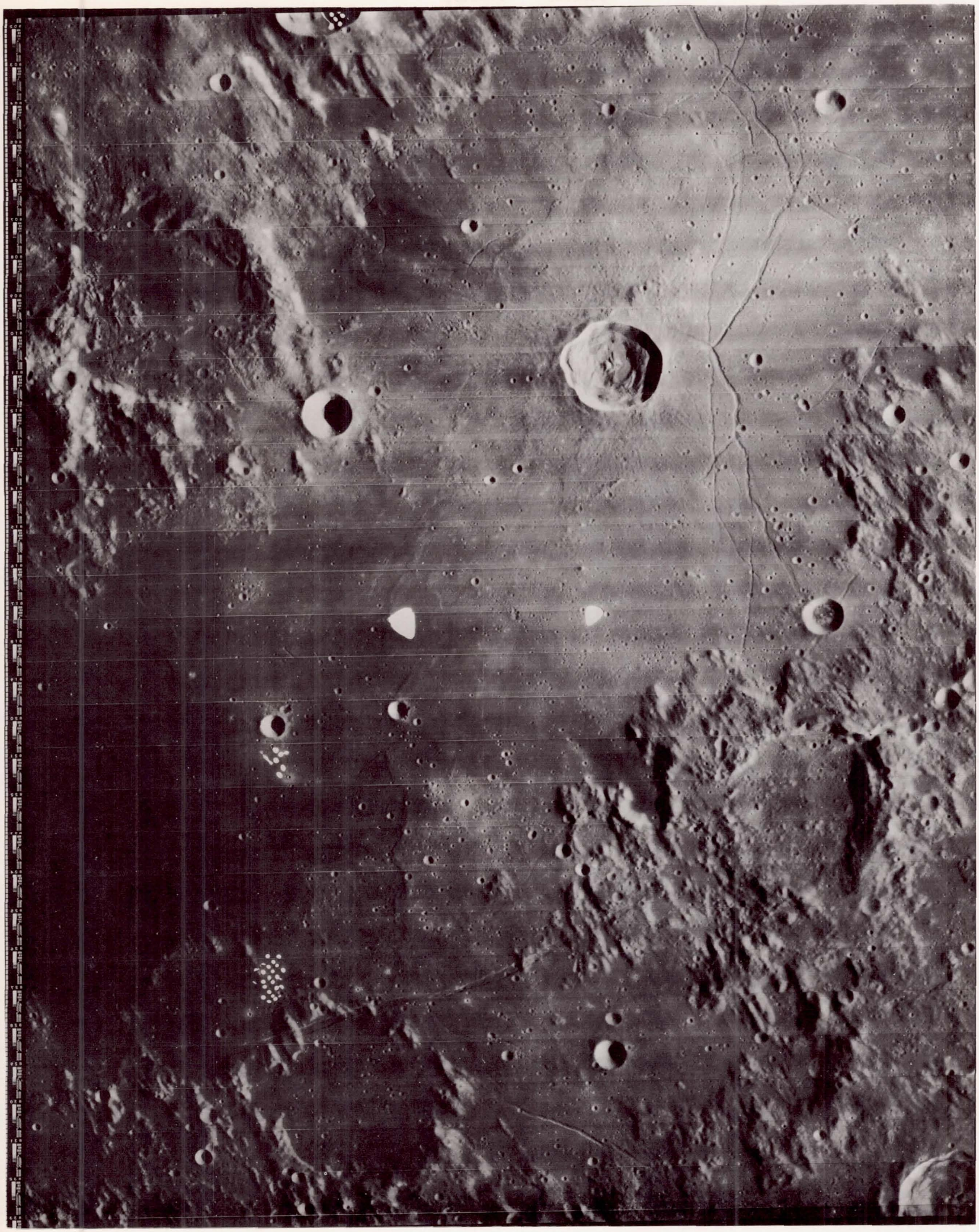
N

PHOTO NO. IV-102-H2

CENTER COORDINATES ..... LONG. 3.6
LAT. 12.9
NORTH DEVIATION (DEG.) ..... 355.2
SUN ANGLE ..... 68.
SPACECRAFT ALTITUDE (KM) ..... 2699.1

PLATE 205

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-102-H1

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | 3.63 |
| | LAT. | 12.96 |
| NORTH DEVIATION (DEG.) | | 355.23 |
| SUN ANGLE | | 68.4 |
| SPACECRAFT ALTITUDE (KM) | | 2699.13 |

N

1 CENTIMETER ≈ 11 KILOMETERS

| | |
|---|---|
| BLAGG | H9 |
| BRUCE | J9 |
| HORROCKS | A15 |
| OPPOLZER | K13 |
| REAUMUR | H14 |
| *RHAETICUS* | *C10* |
| SEELIGER | E13 |
| TRIESNECKER | E5 |
| UKERT | J1 |

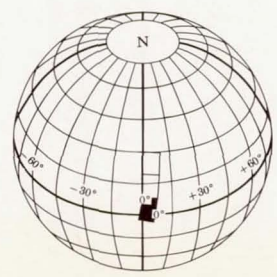
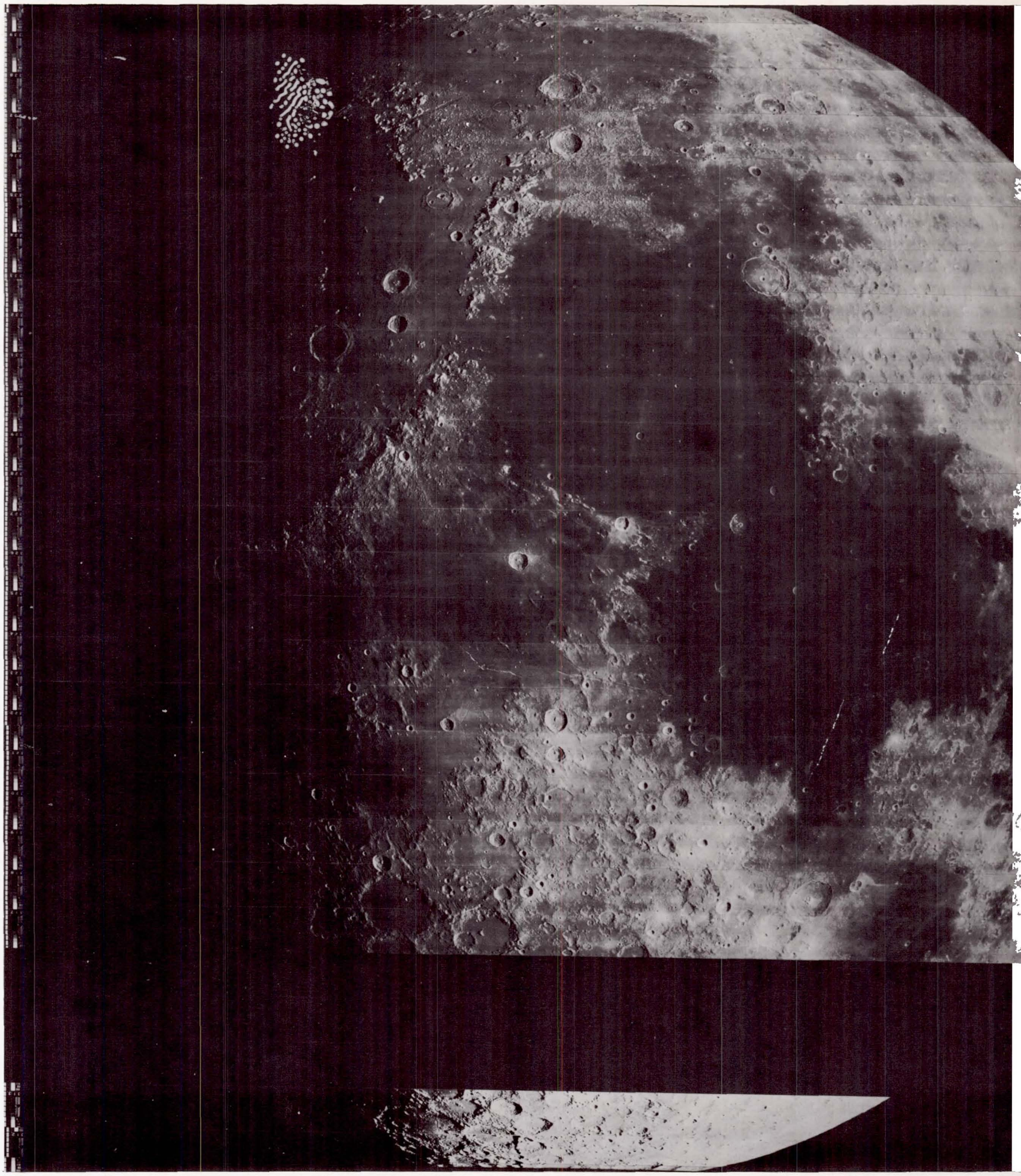
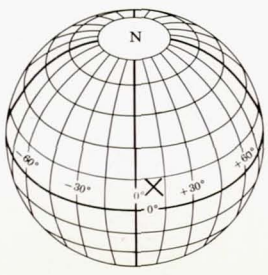



PLATE 206

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE IMBIUM ..... D4
MARE SERENITATIS ..... H5
MARE TRANQUILLITATIS ..... K8
MARE VAPORUM ..... F8

1 CENTIMETER≈ 86 KILOMETERS

N

PHOTO NO. IV-97-M

CENTER COORDINATES ..... LONG. 9.66
LAT. 12.98
NORTH DEVIATION (DEG.) ..... 354.82
SUN ANGLE ..... 68.4
SPACECRAFT ALTITUDE (KM) ..... 2705.29

PLATE 207

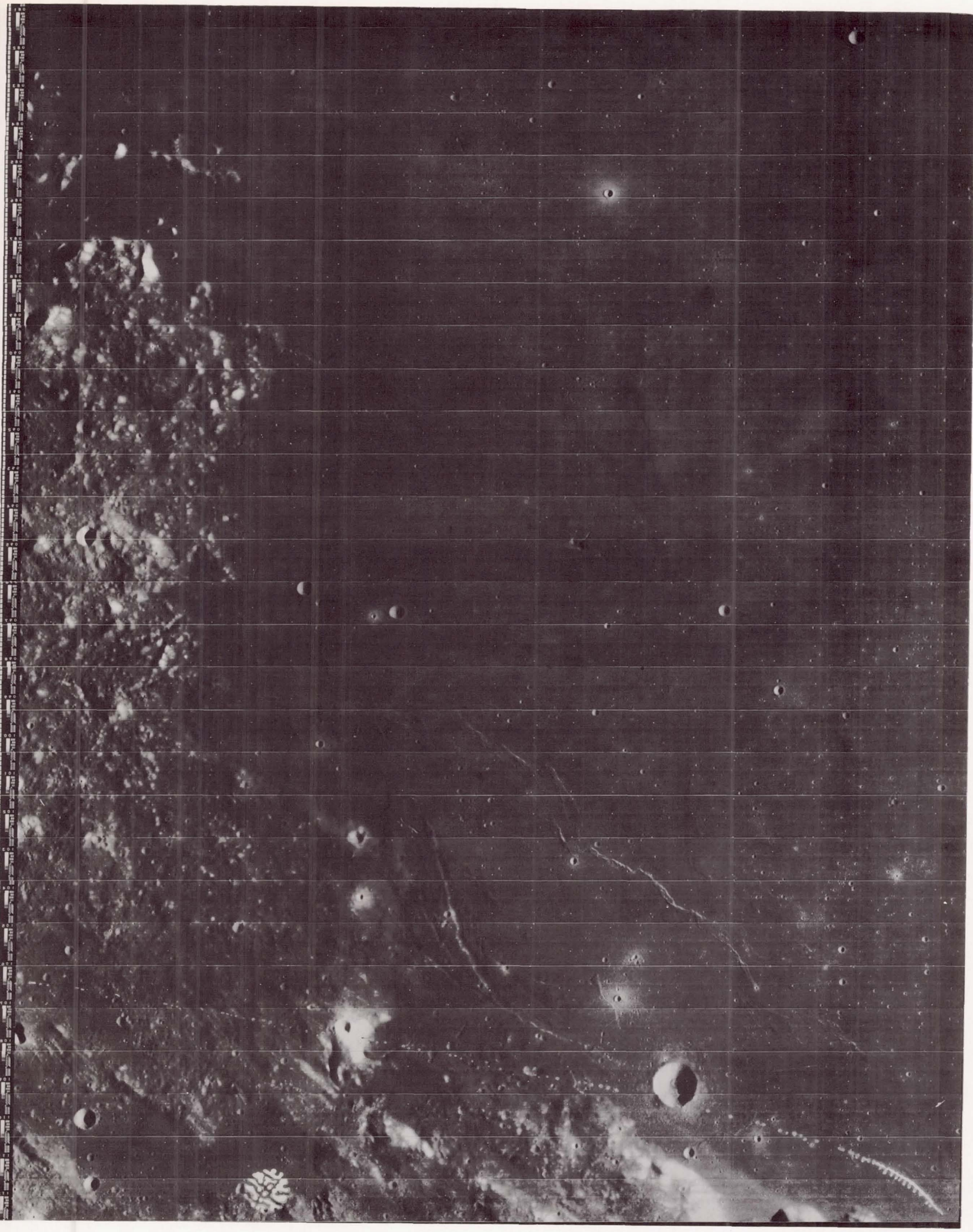



PHOTO NO. IV-97-H3

CENTER COORDINATES ..... LONG. 9.66
LAT. 12.97
NORTH DEVIATION (DEG.) .....354.82
SUN ANGLE .....68.4
SPACECRAFT ALTITUDE (KM) .....2705.28

N

1 CENTIMETER ≈ 11 KILOMETERS

LINNE ..... E3
MONTES HAEMUS ..... F15
SULPICIUS GALLUS .... D14

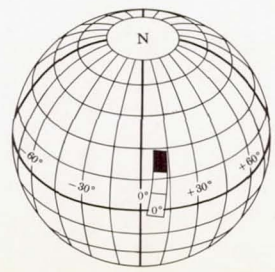
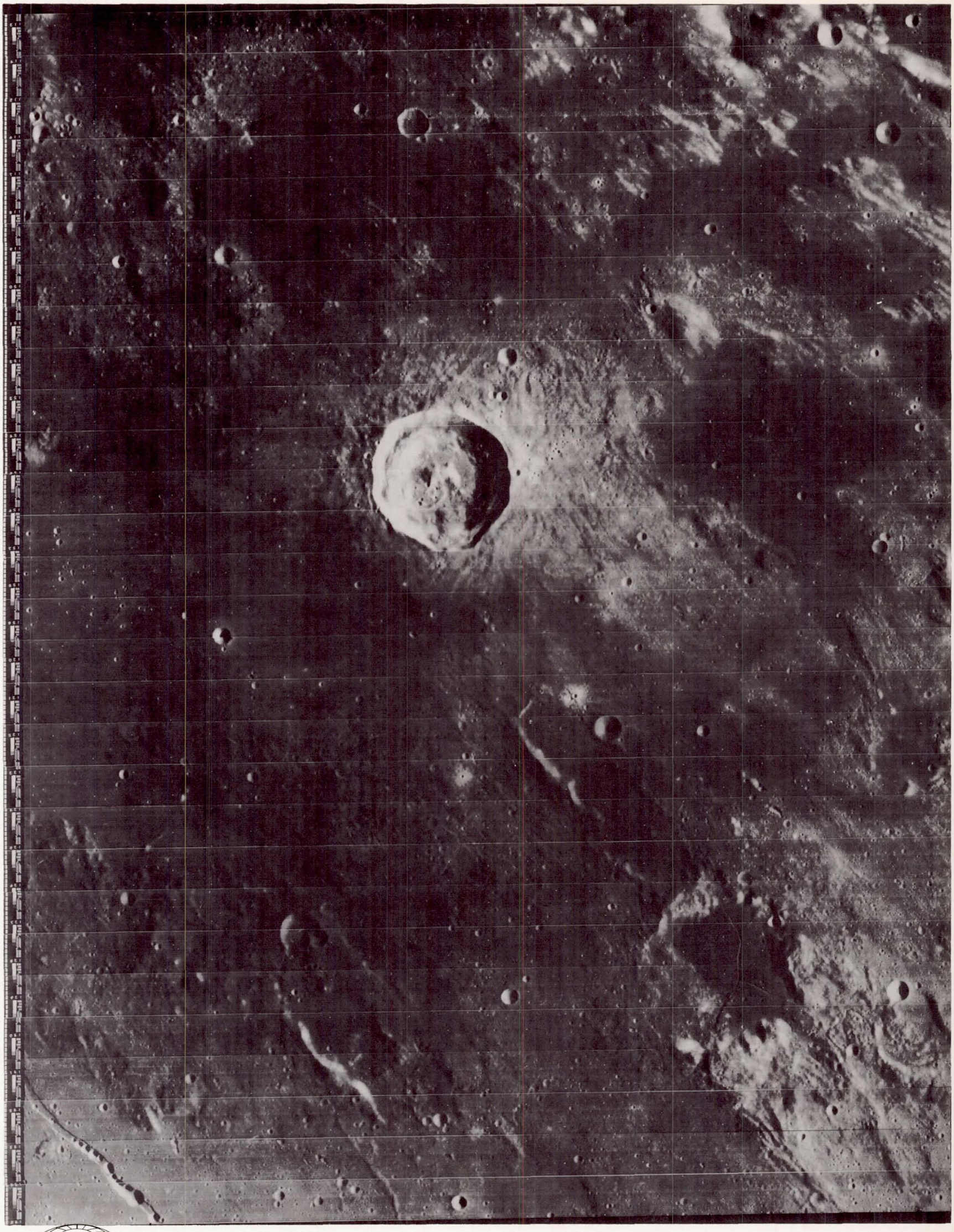
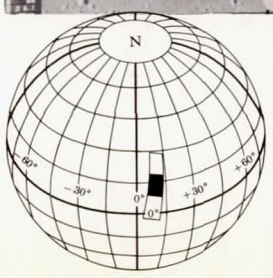



PLATE 208

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BOSCOVICH ..... K13
MANILIUS ..... F6
MONTES HAEMUS .... H1

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-97-H2

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | 9.66 |
| LAT. | 12.97 |
| NORTH DEVIATION (DEG.) ..... | 354.82 |
| SUN ANGLE ..... | 68.4 |
| SPACECRAFT ALTITUDE (KM) ..... | 2705.28 |

PLATE 209

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

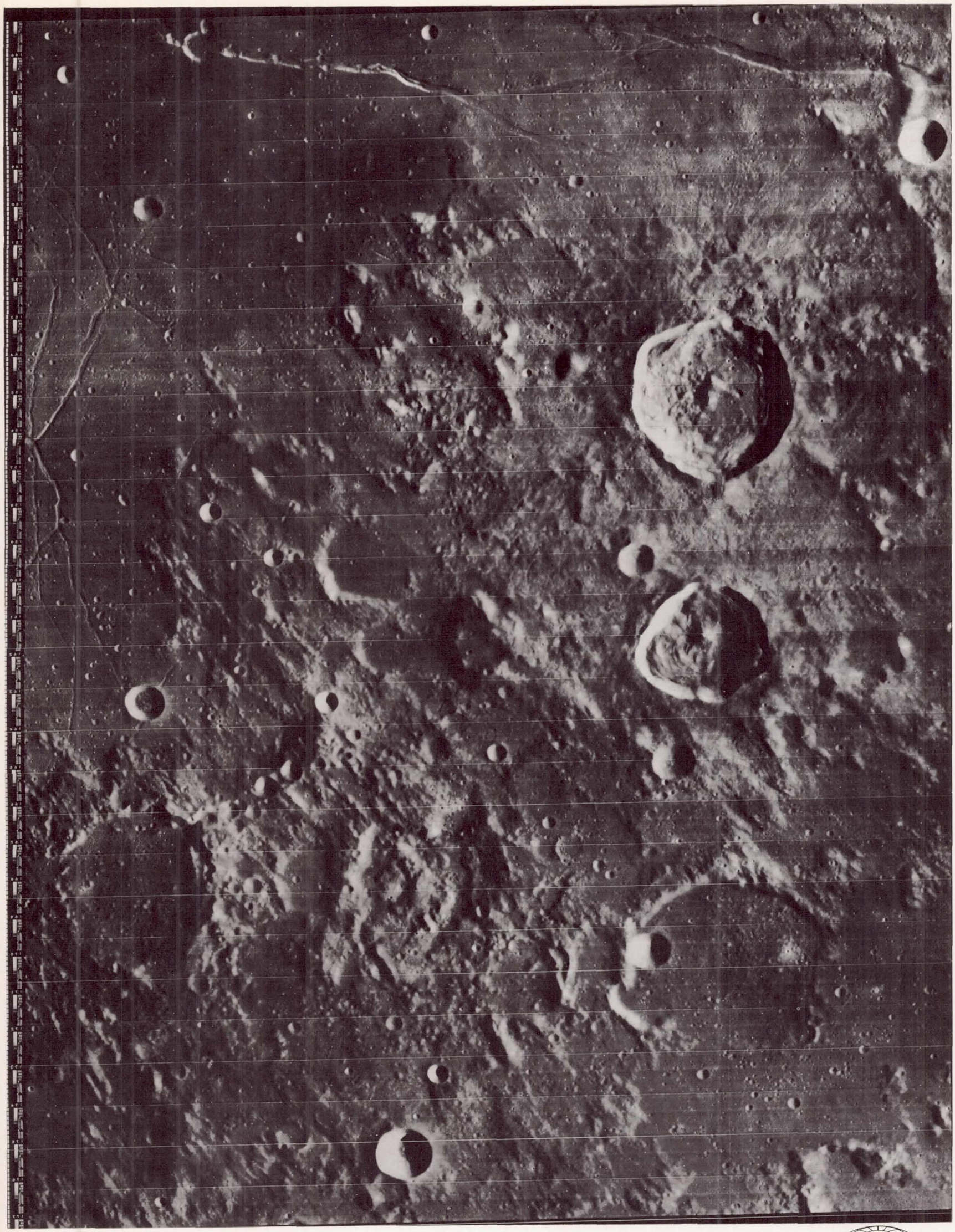


PHOTO NO. IV-97-H1

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | 9.66 |
| | LAT. | 12.97 |
| NORTH DEVIATION (DEG.) | | 354.82 |
| SUN ANGLE | | 68.4 |
| SPACECRAFT ALTITUDE (KM) | | 2705.28 |

N

1 CENTIMETER≈11 KILOMETERS

| | |
|---|---|
| AGRIPPA | D5 |
| ARIADAEUS RIMA | C1 |
| DEMBOWSKI | H7 |
| GODIN | D8 |
| HYGINUS RIMA | J1 |
| LADE | C13 |
| PICKERING | G15 |
| RHAETICUS | L12 |
| SILBERSCHLAG | A2 |

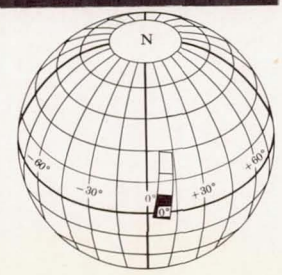
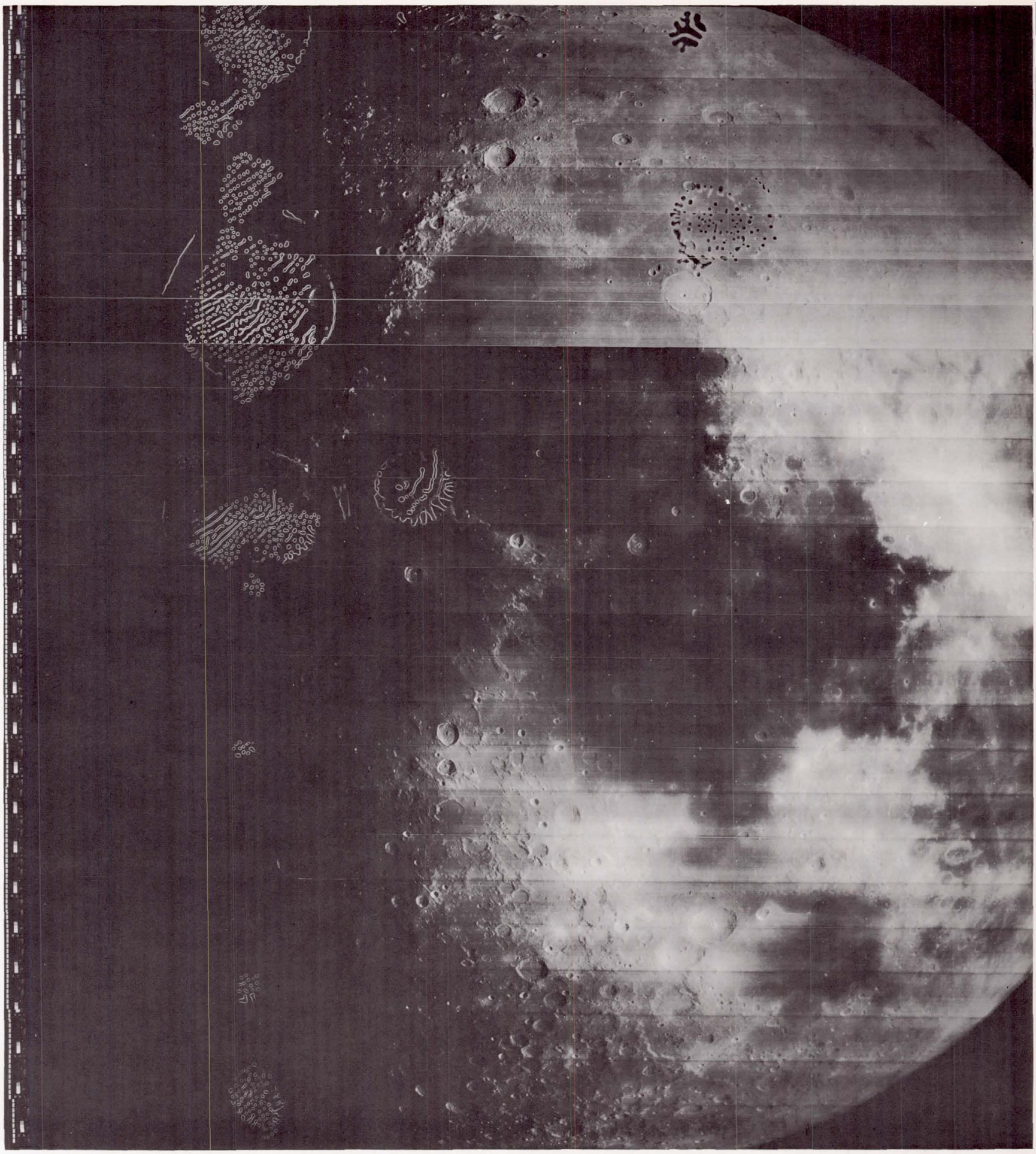
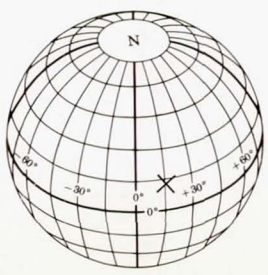



PLATE 210

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FRIGORIS ..... F1
MARE NECTARIS ..... K12
MARE SERENITATIS ..... G5
MARE TRANQUILLITATIS ..... J8

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-90-M

CENTER COORDINATES ..... LONG. 15.87
LAT. 13.75
NORTH DEVIATION (DEG.) .....355.59
SUN ANGLE .....68.4
SPACECRAFT ALTITUDE (KM) .....2711.27

PLATE 211

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

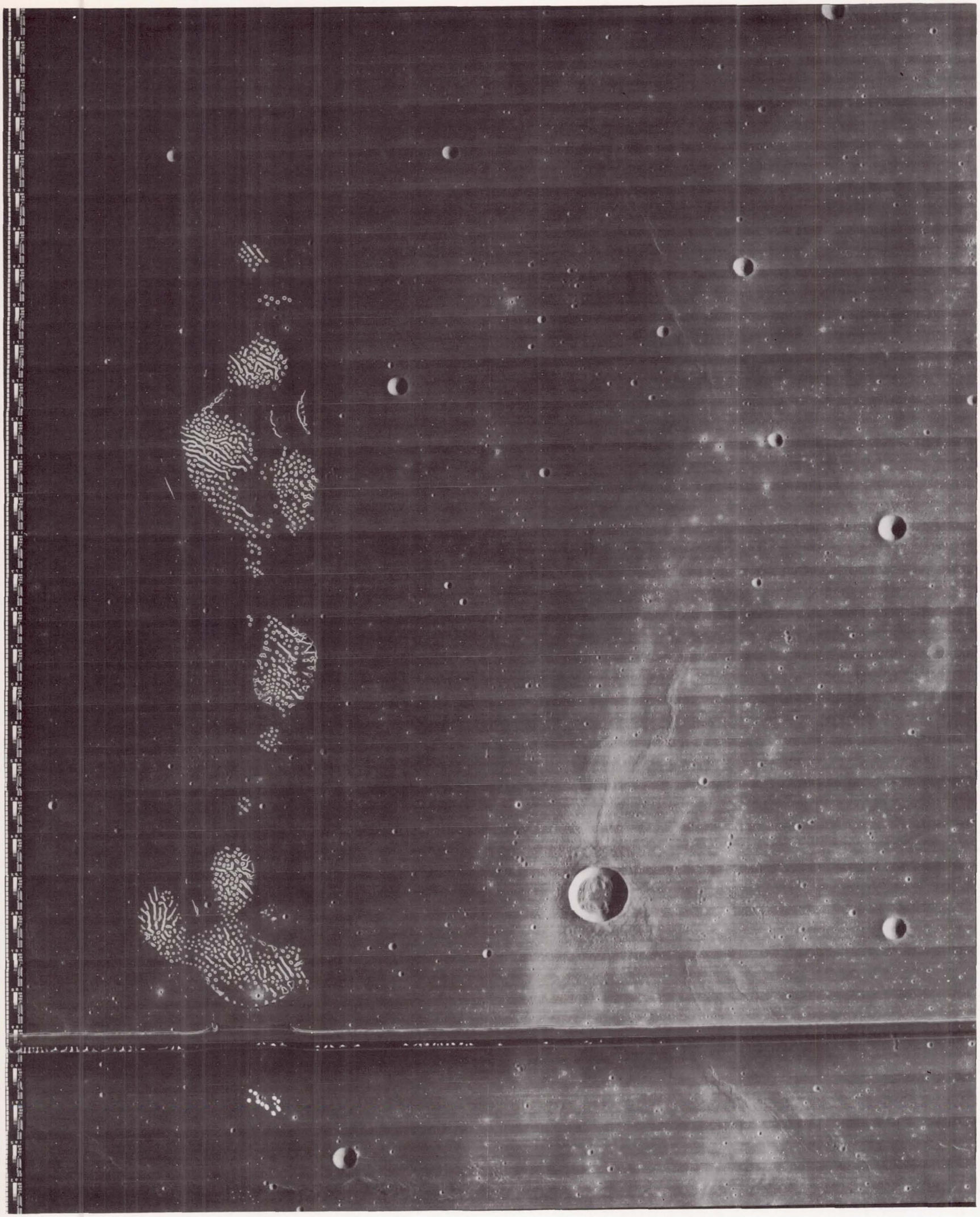


PHOTO NO. IV-90-H3

CENTER COORDINATES ..... LONG. 15.87
LAT. 13.75
NORTH DEVIATION (DEG.) ..... 355.59
SUN ANGLE ..... 68.4
SPACECRAFT ALTITUDE (KM) ..... 2711.26

N

1 CENTIMETER ≈ 11 KILOMETERS

BESSEL ..... E11
DESEILLIGNY .... B12

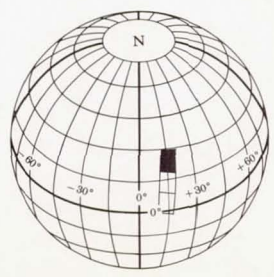
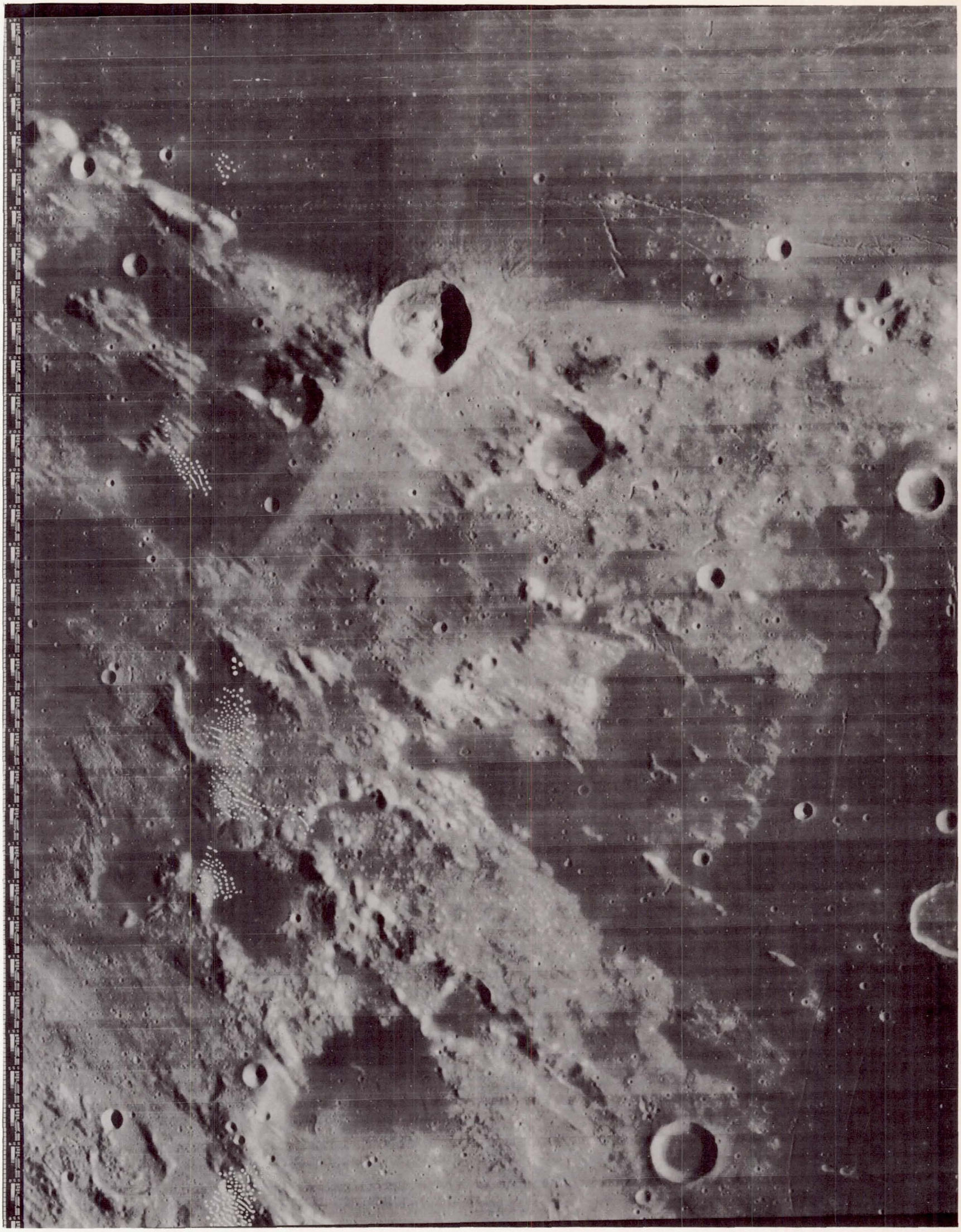
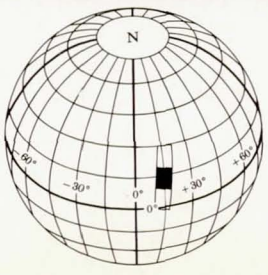



PLATE 212

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






AUWERS ..... H6
JULIUS CEASAR .... E15
MACLEAR ..... M12
MENELAUS ..... F4
TACQUET ..... K3

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-90-H2

CENTER COORDINATES ..... LONG. 15.87
LAT. 13.75
NORTH DEVIATION (DEG.) ..... 355.59
SUN ANGLE ..... 68.4
SPACECRAFT ALTITUDE (KM) ..... 2711.26

PLATE 213

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

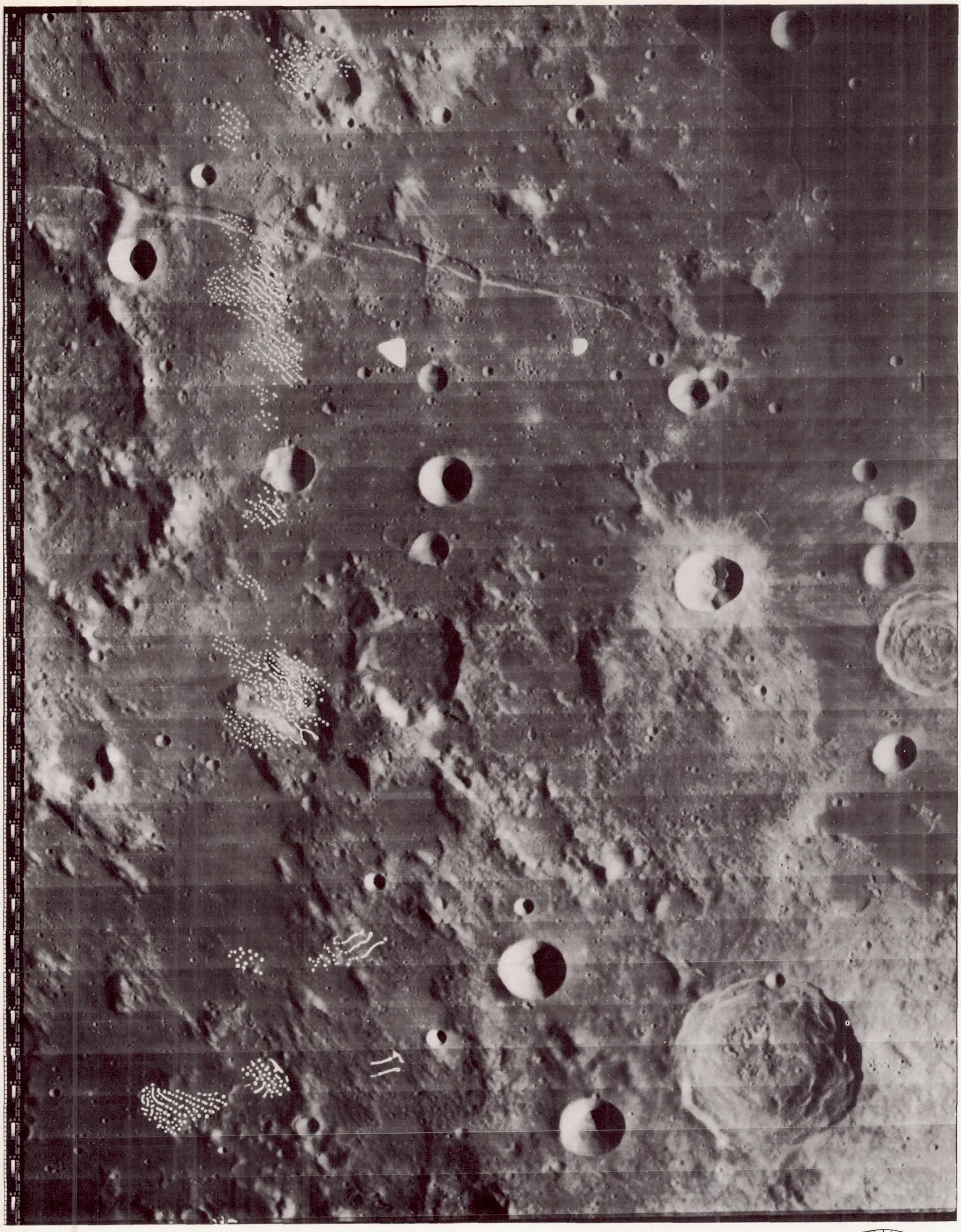


PHOTO NO. IV-90-H1

CENTER COORDINATES ..... LONG. 15.87
LAT. 13.75
NORTH DEVIATION (DEG.) .....355.59
SUN ANGLE .....68.4
SPACECRAFT ALTITUDE (KM) .....2711.26

N

*1 CENTIMETER ≈ 11 KILOMETERS*

| | |
|---|---|
| ARIADAEUS | D5 |
| CAYLEY | G6 |
| D'ARREST | G9 |
| DELAMBRE | C14 |
| DE MORGAN | G7 |
| DIONYSIUS | D8 |
| RITTER | A9 |
| SCHMIDT | A10 |
| SILBERSCHLAG | L4 |
| THEON JR | E15 |
| THEON SR | F13 |
| WHEWELL | J6 |

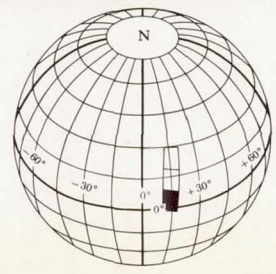
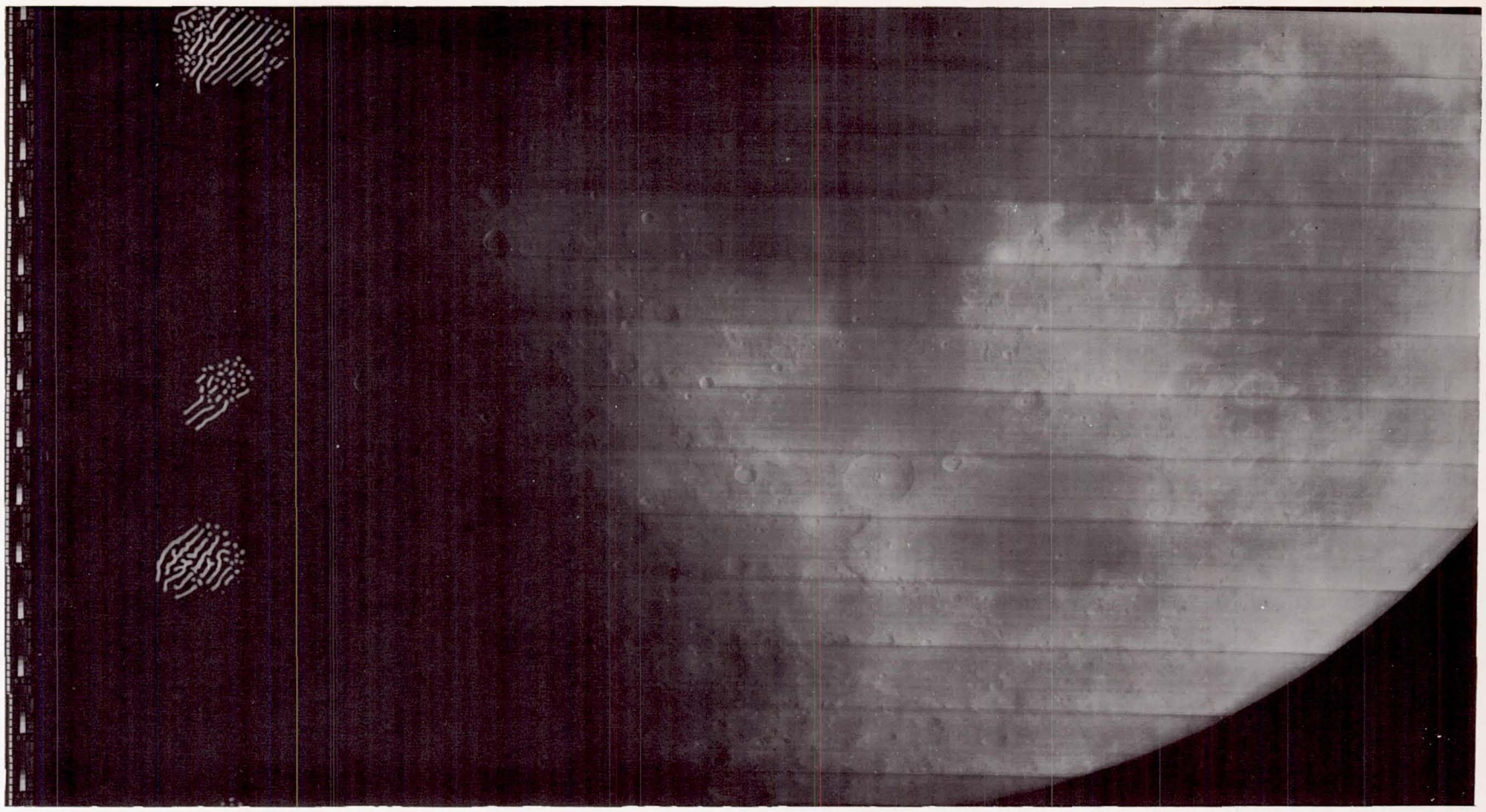
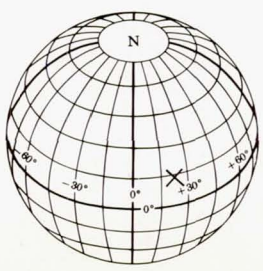



PLATE 214

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS ..... L2
MARE NECTARIS ..... J5

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-85-M

CENTER COORDINATES ..... LONG. 23.94
LAT. 13.00
NORTH DEVIATION (DEG.) ..... 354.22
SUN ANGLE ..... 66.5
SPACECRAFT ALTITUDE (KM) ..... 2716.90

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-85-H3

CENTER COORDINATES ..... LONG. 23.94
LAT. 12.99
NORTH DEVIATION (DEG.) ..... 354.22
SUN ANGLE ..... 66.5
SPACECRAFT ALTITUDE (KM) ..... 2716.89

N

1 CENTIMETER ≈ 11 KILOMETERS

DESEILLIGNY .... L12

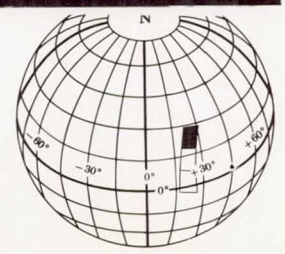
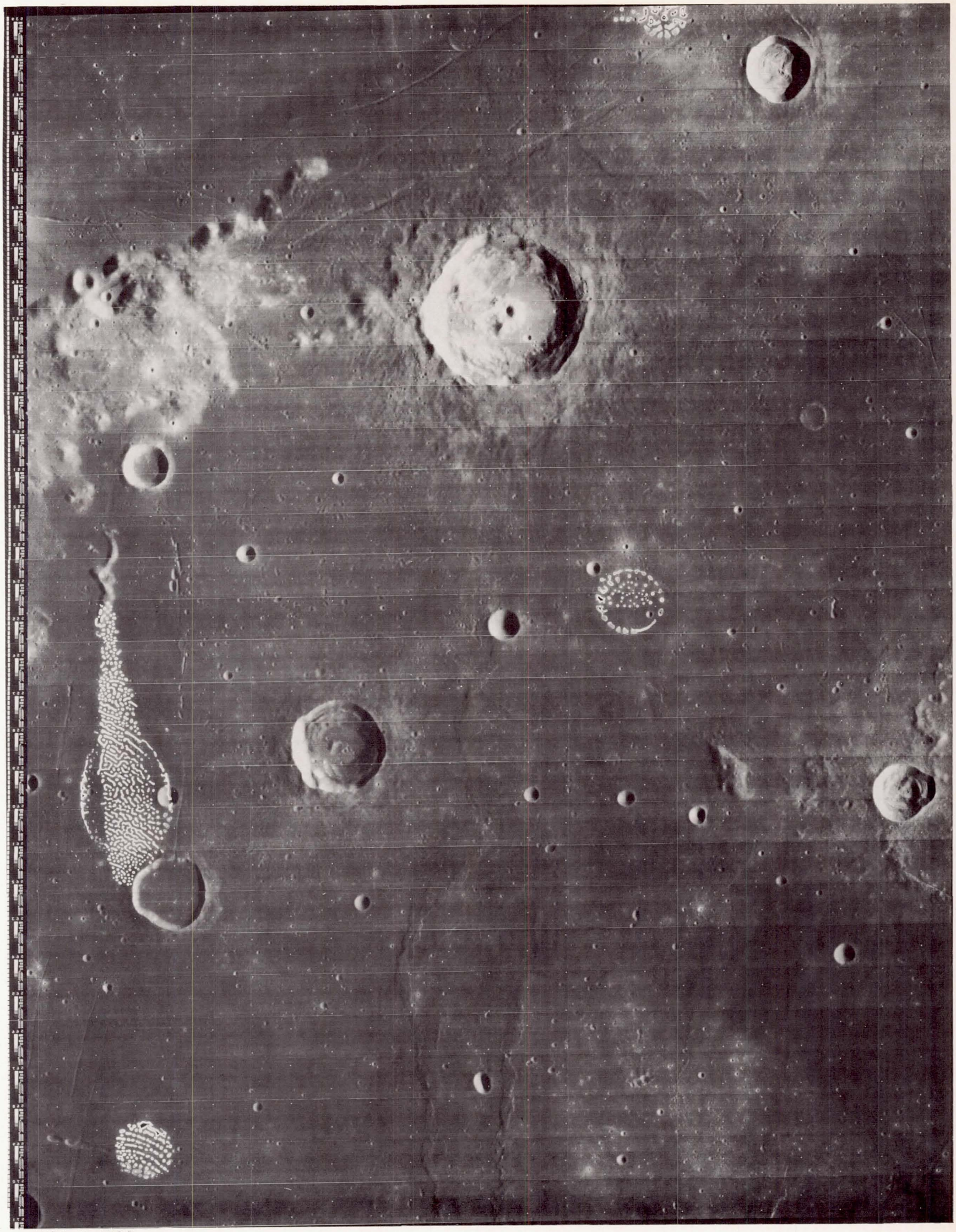
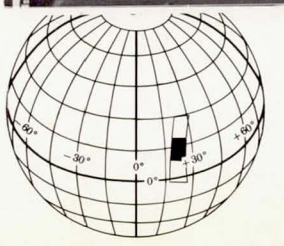



PLATE 216

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






DAWES ..... K1
MACLEAR ....C12
PLINIUS ..... G4
ROSS ..... E10

1 CENTIMETER≈11 KILOMETERS

N

PHOTO NO. IV-85-H2

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | 23.94 |
| | LAT. | 12.99 |
| NORTH DEVIATION (DEG.) ..... | | 354.22 |
| SUN ANGLE ..... | | 66.5 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2716.89 |

PLATE 217

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

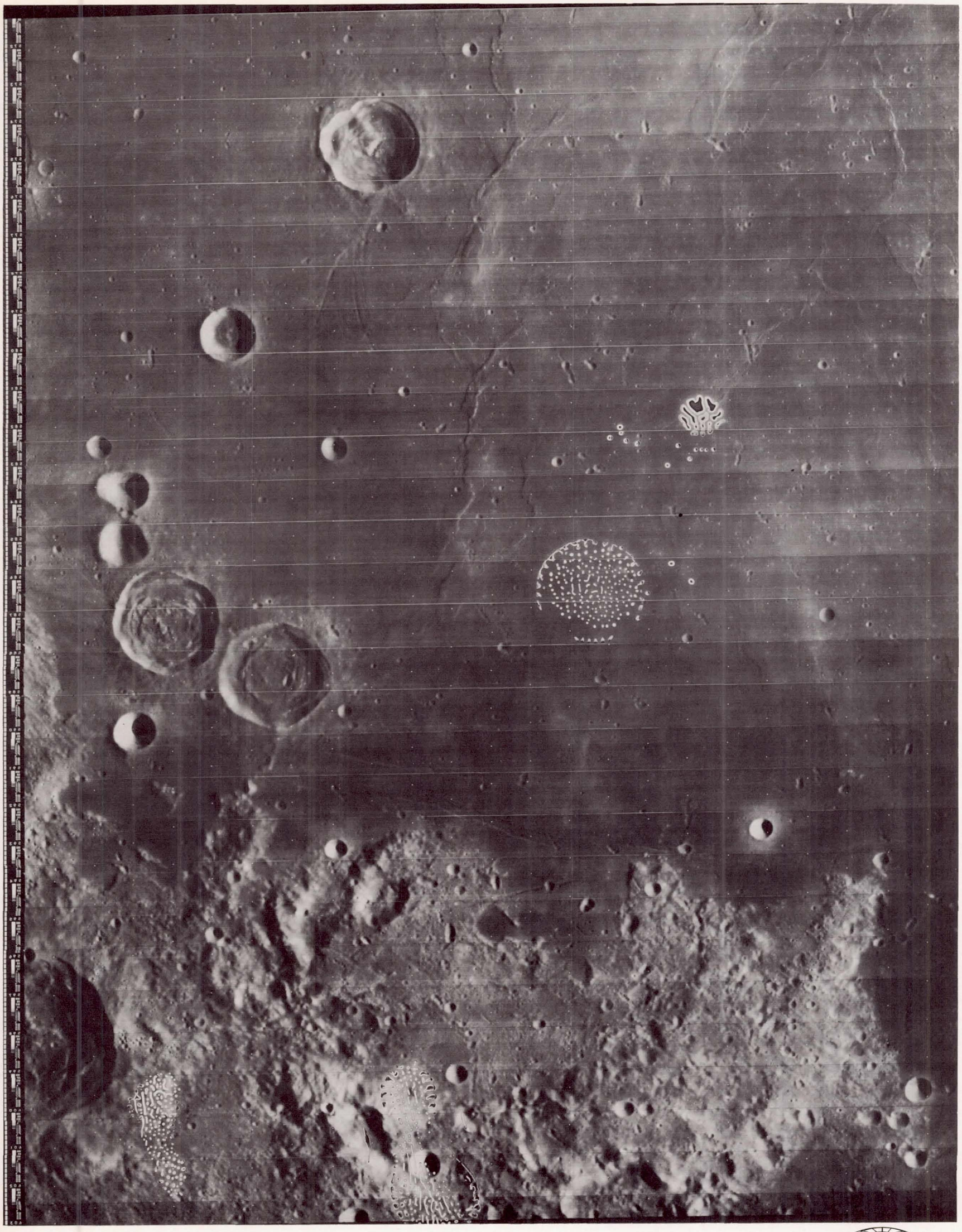


PHOTO NO. IV-85-H1

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | 23.94 |
| | LAT. | 12.99 |
| NORTH DEVIATION (DEG.) | | 354.22 |
| SUN ANGLE | | 66.5 |
| SPACECRAFT ALTITUDE (KM) | | 2716.89 |

N

1 CENTIMETER≈ 11 KILOMETERS

| | |
|---|---|
| ARAGO | H2 |
| MANNERS | K5 |
| RITTER | K8 |
| SABINE | J9 |
| SCHMIDT | L10 |

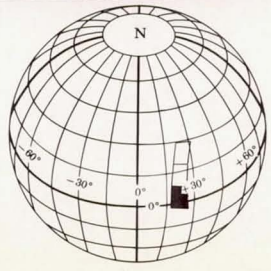
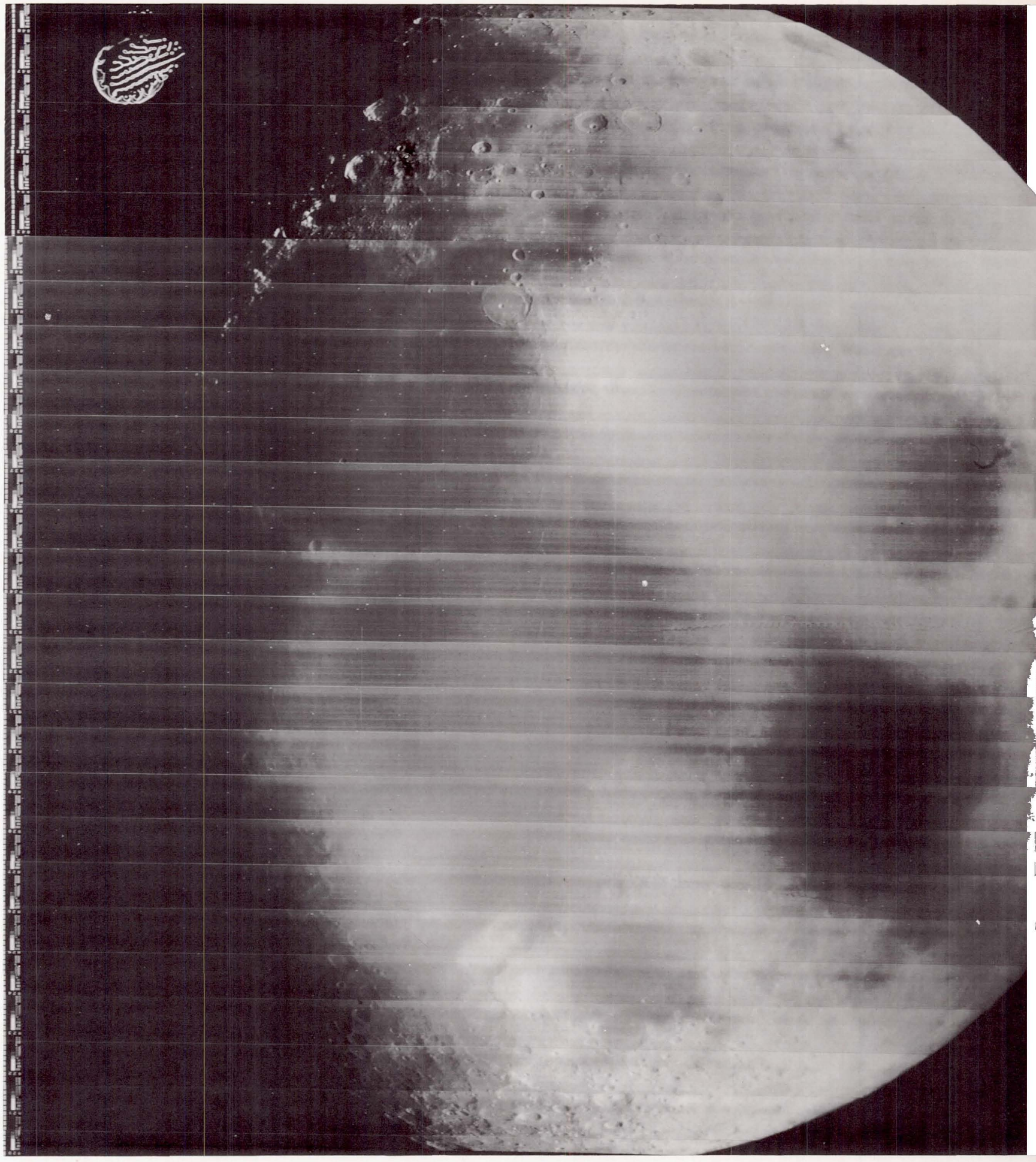
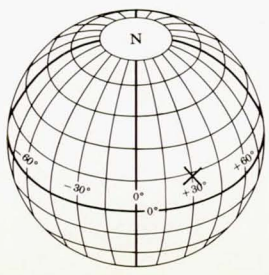



PLATE 218

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... L6
MARE FECUNDITATIS ..... L10
MARE NECTARIS ..... H12
MARE TRANQUILLITATIS .... G9

1 CENTIMETER ≈ 86 KILOMETERS

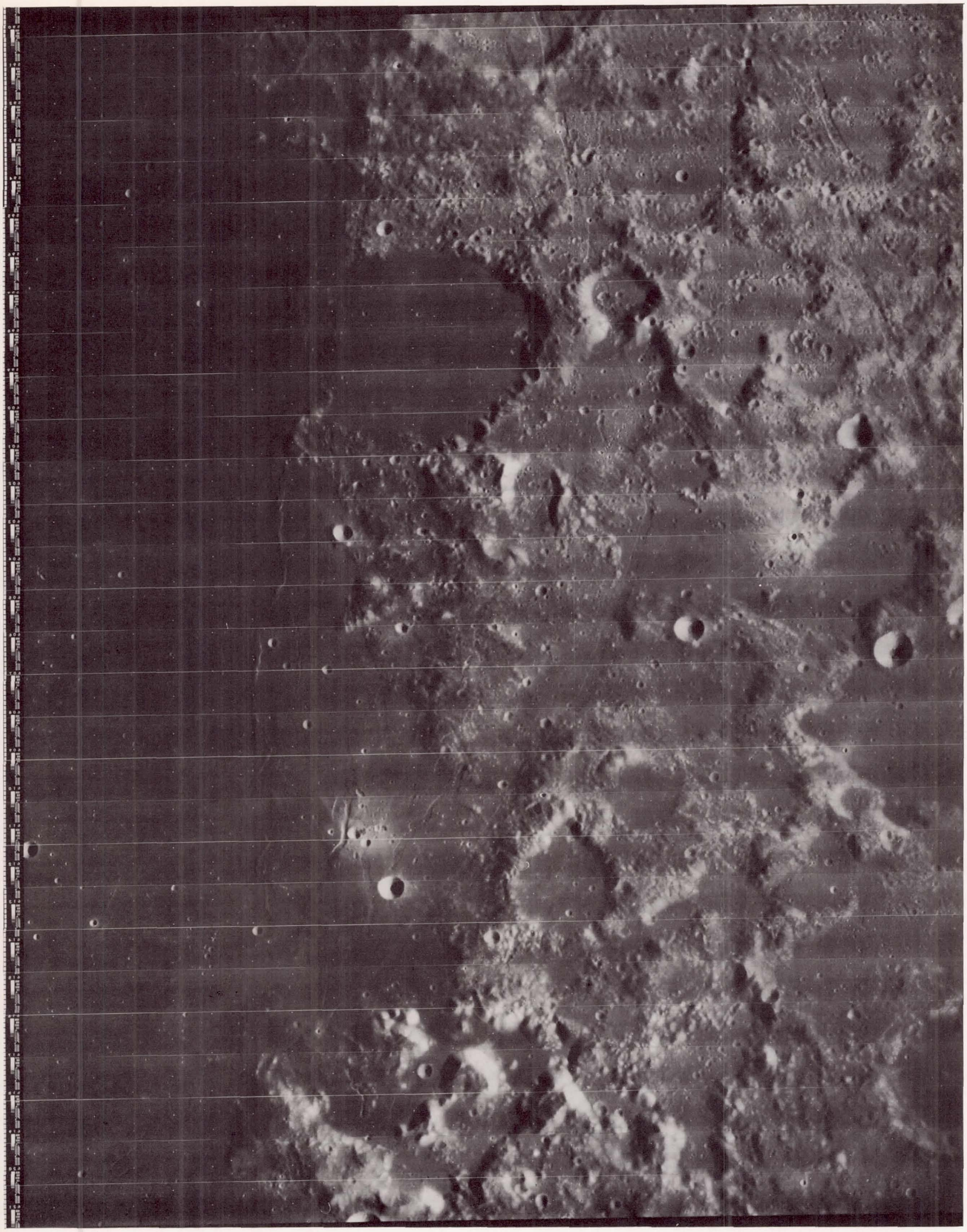
N

PHOTO NO. IV-78-M

CENTER COORDINATES ..... LONG. 30.21
LAT. 13.30
NORTH DEVIATION (DEG.) ..... 354.97
SUN ANGLE ..... 66.4
SPACECRAFT ALTITUDE (KM) .... 2722.08

PLATE 219

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-78-H3

CENTER COORDINATES ..... LONG. 30.21
LAT. 13.30
NORTH DEVIATION (DEG.) ..... 354.97
SUN ANGLE ..... 66.4
SPACECRAFT ALTITUDE (KM) .... 2722.07

N

1 CENTIMETER ≈ 11 KILOMETERS

CHACORNAC ..... F1
LEMONNIER .... G5
LITTROW ..... E11
MARALDI ..... A14

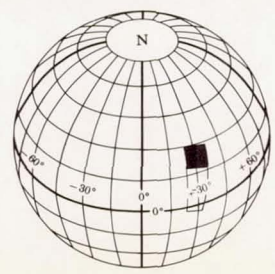
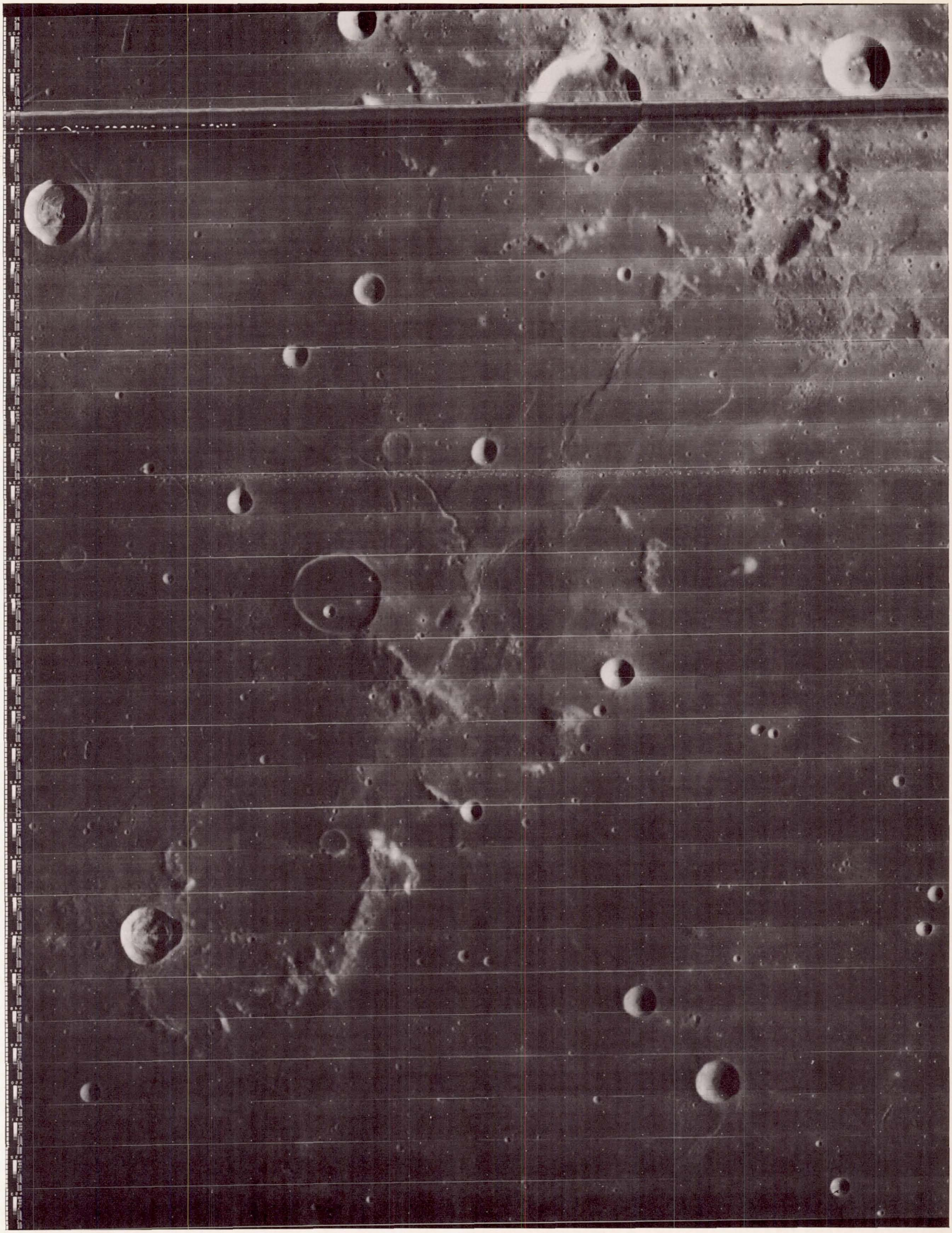
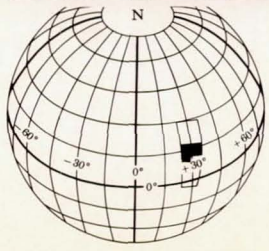



PLATE 220

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






DAWES ..... A3
JANSEN ..... E8
SINAS ..... J14
VITRUVIUS .... H2

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-78-H2

CENTER COORDINATES ..... LONG. 30.21
LAT. 13.30
NORTH DEVIATION (DEG.) ..... 354.97
SUN ANGLE ..... 66.4
SPACECRAFT ALTITUDE (KM) .... 2722.07

PLATE 221

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

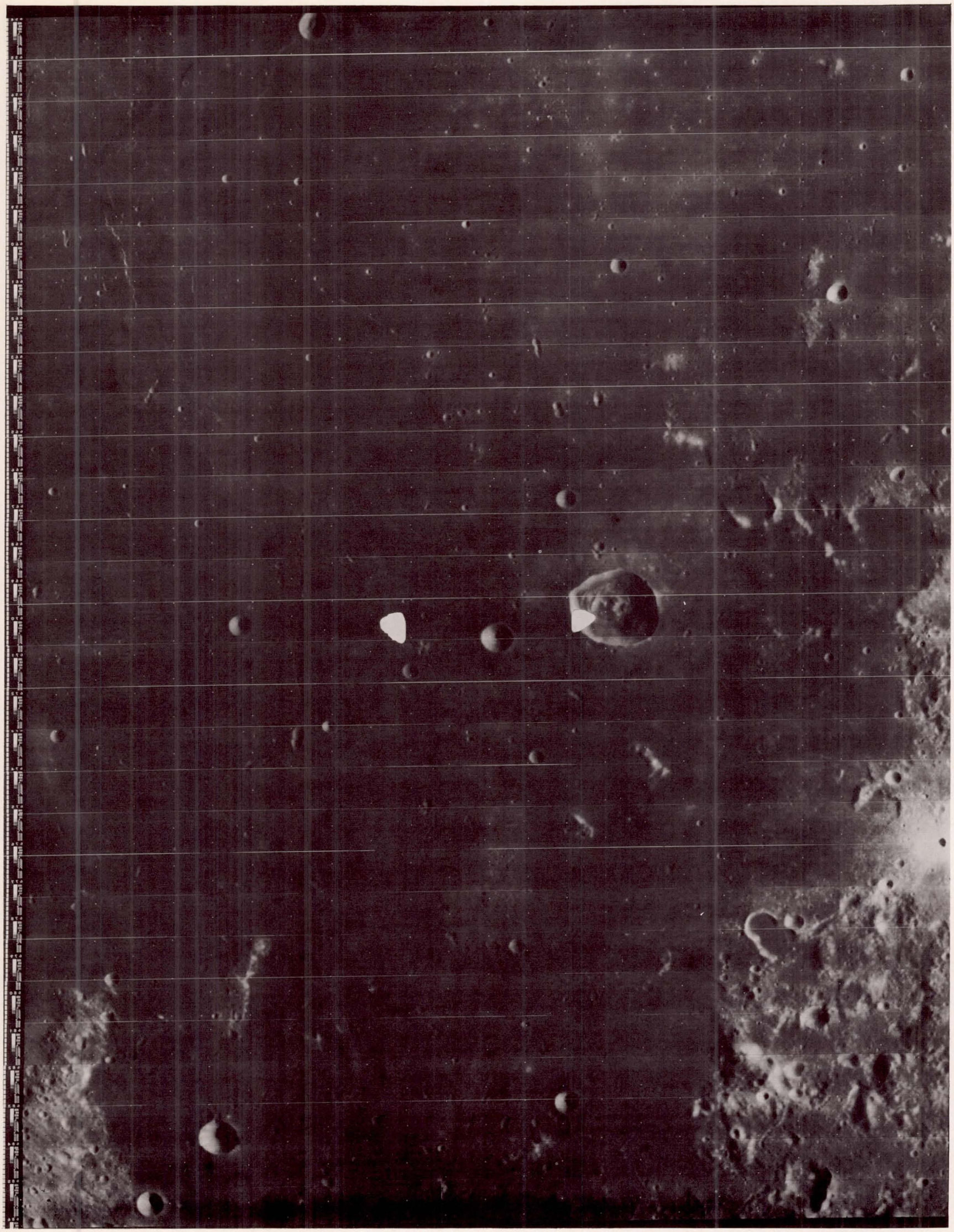


PHOTO NO. IV-78-H1

CENTER COORDINATES ..... LONG. 30.21
LAT. 13.30
NORTH DEVIATION (DEG.) ..... 354.97
SUN ANGLE ..... 66.4
SPACECRAFT ALTITUDE (KM) ... 2722.07

N

1 CENTIMETER ≈ 11 KILOMETERS

MASKELYNE ....E8

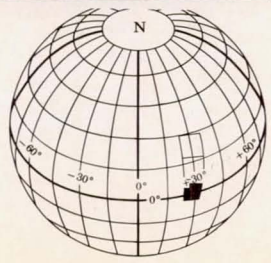
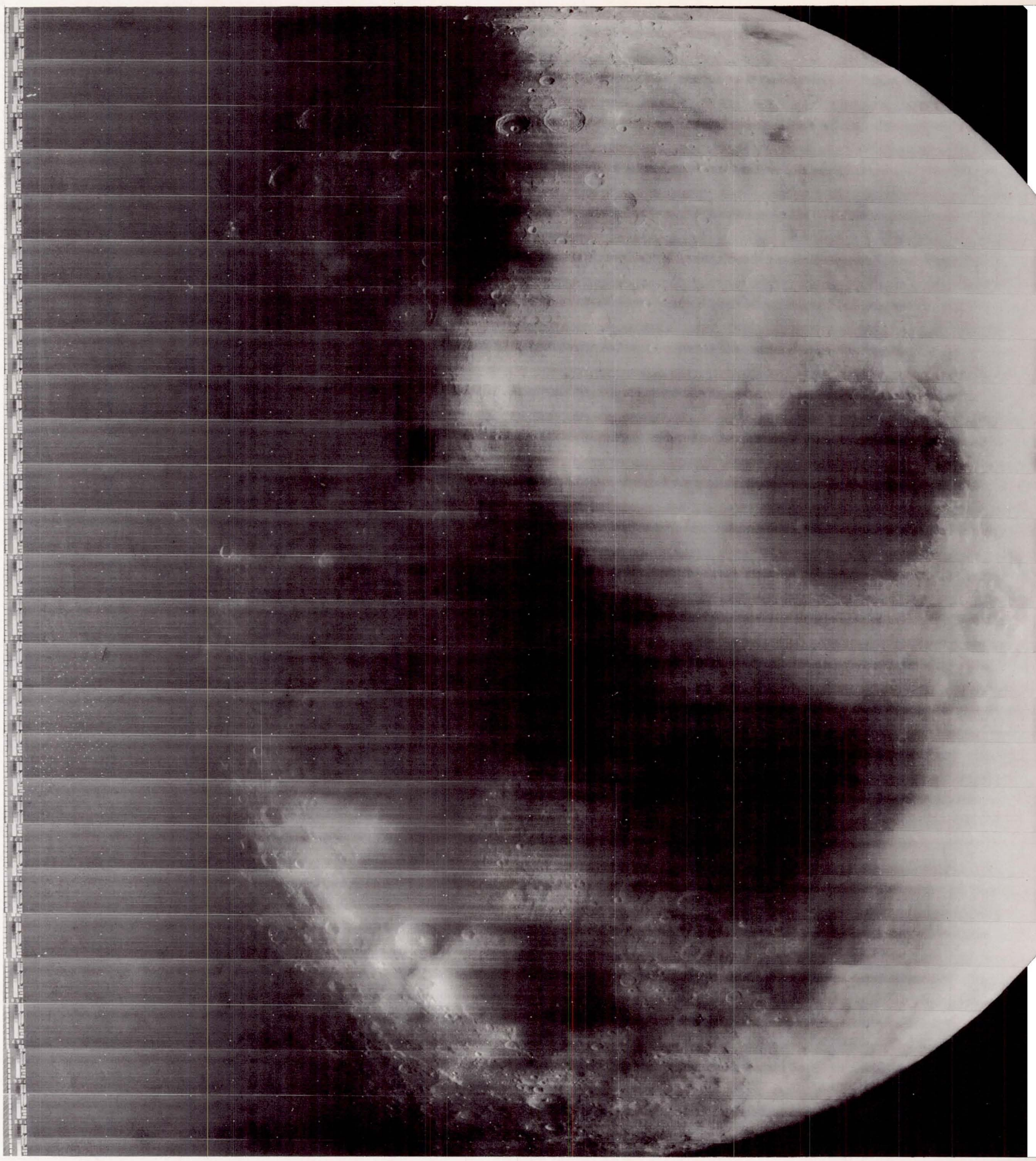
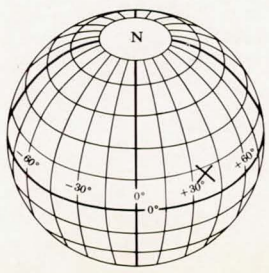



PLATE 222

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... K6
MARE FECUNDITATIS ..... K10
MARE NECTARIS ..... G12
MARE TRANQUILLITATIS ..... F8

1 CENTIMETER ≈ 86 KILOMETERS

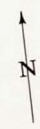



PHOTO NO. IV-73-M

CENTER COORDINATES ..... LONG. 37.59
LAT. . 12.54
NORTH DEVIATION (DEG.) ..... 353.94
SUN ANGLE ..... 65.1
SPACECRAFT ALTITUDE (KM) .... 2726.53

PLATE 223

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

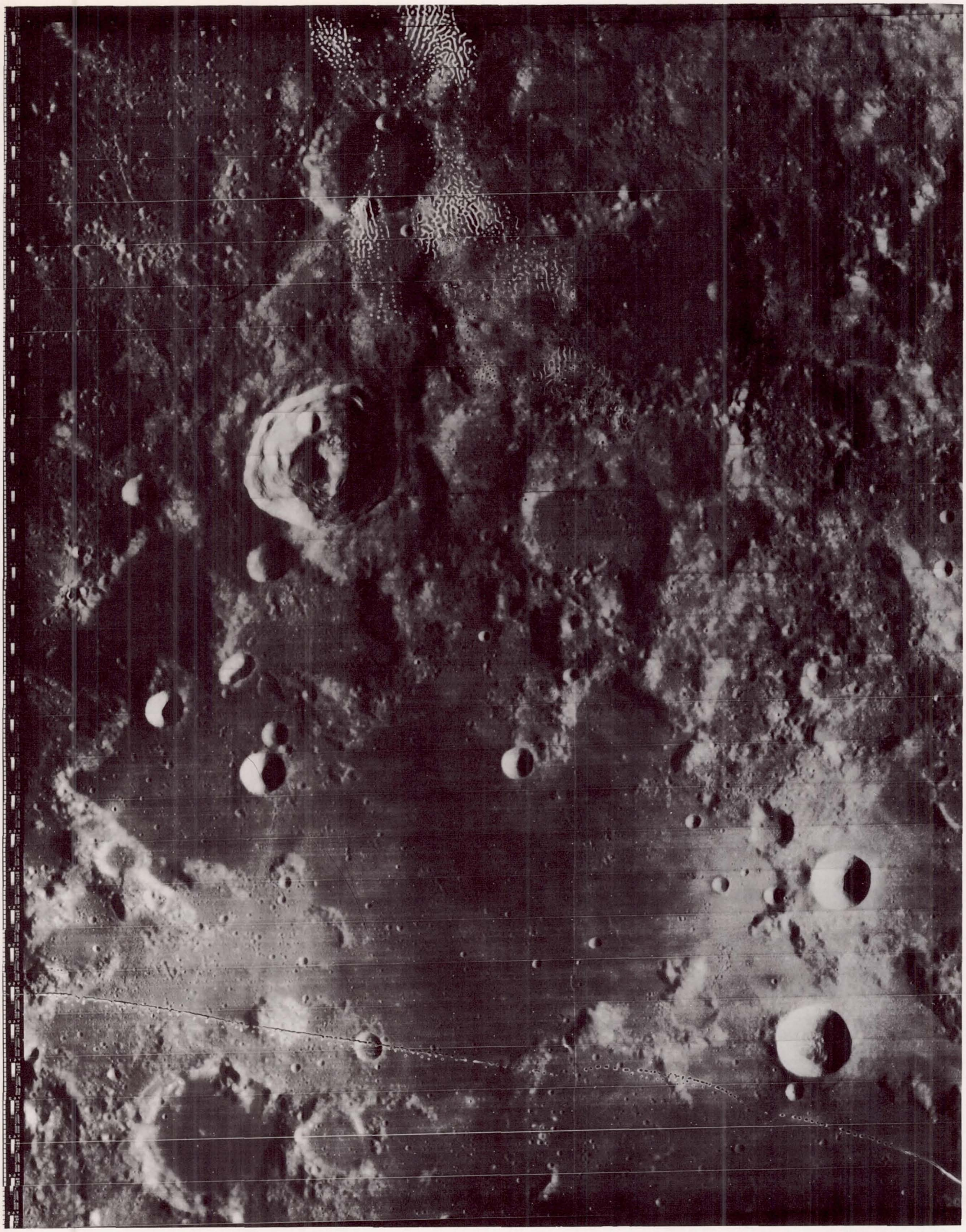


PHOTO NO. IV-73-H3

CENTER COORDINATES ..... LONG. 37.59
LAT. 12.53
NORTH DEVIATION (DEG.) ..... 353.94
SUN ANGLE ..... 65.1
SPACECRAFT ALTITUDE (KM) .... 2726.52

N

1 CENTIMETER ≈ 11 KILOMETERS

MARAIDI .... K14
ROMER ..... H6

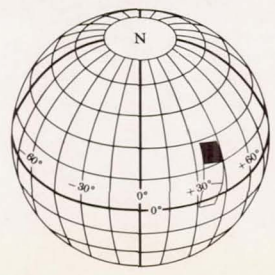
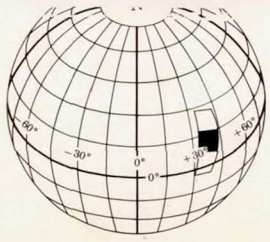



PLATE 224

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




CAUCHY .... K13
FRANZ ..... L3

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-73-H2

CENTER COORDINATES ..... LONG. 37.59
LAT. 12.53
NORTH DEVIATION (DEG.) ..... 353.94
SUN ANGLE ..... 65.1
SPACECRAFT ALTITUDE (KM) .... 2726.52

PLATE 225

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

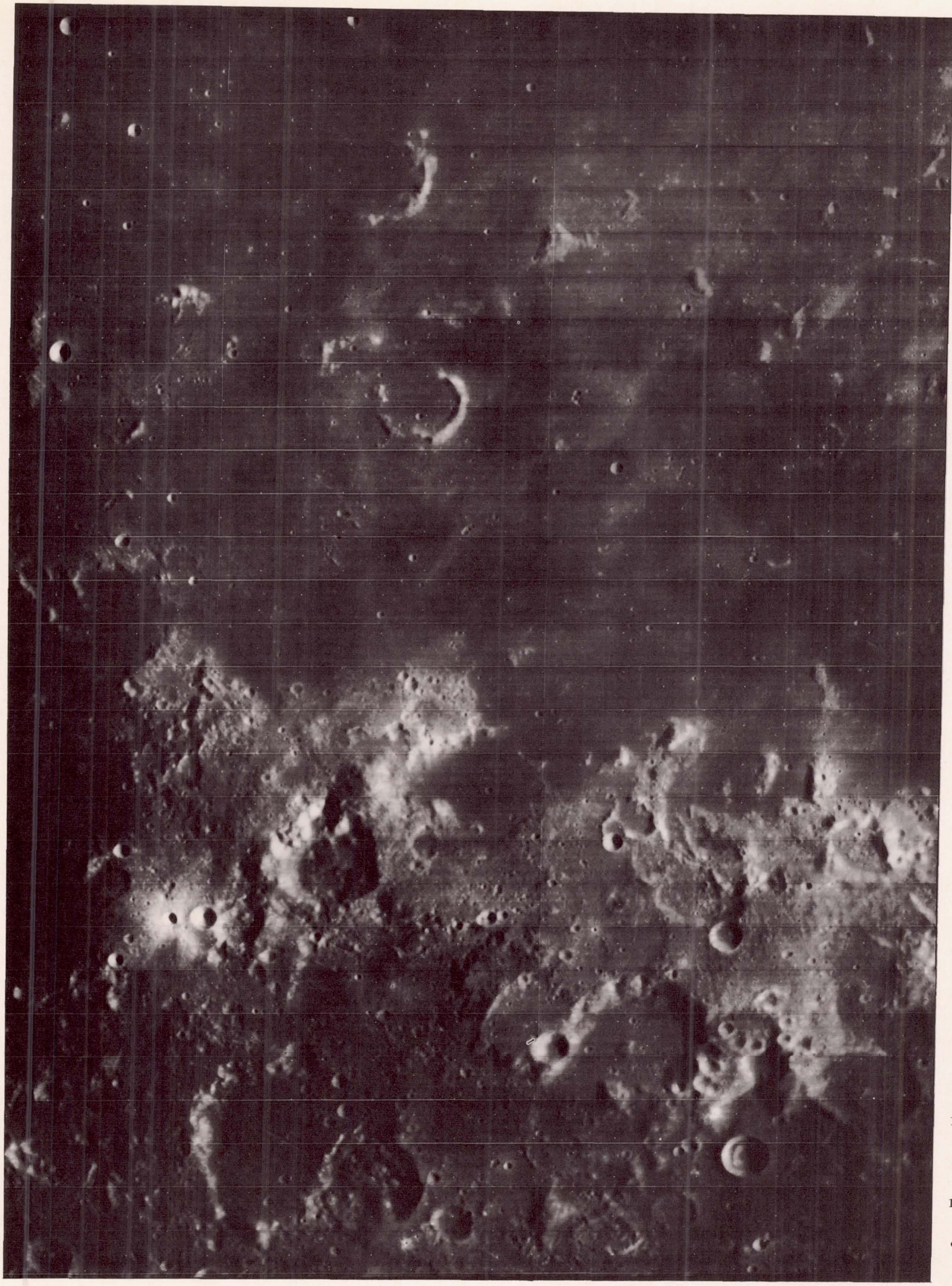


PHOTO NO. IV-73-H1

CENTER COORDINATES ..... LONG. 37.59
LAT. 12.53
NORTH DEVIATION (DEG.) ..... 353.94
SUN ANGLE ..... 65.1
SPACECRAFT ALTITUDE (KM) .... 2726.52

N

1 CENTIMETER ≈11 KILOMETERS

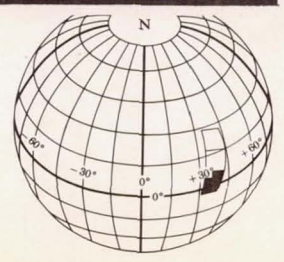
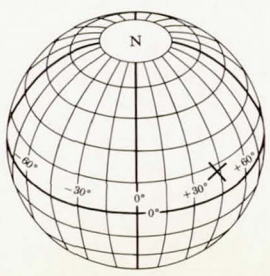



PLATE 226

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 86 KILOMETERS

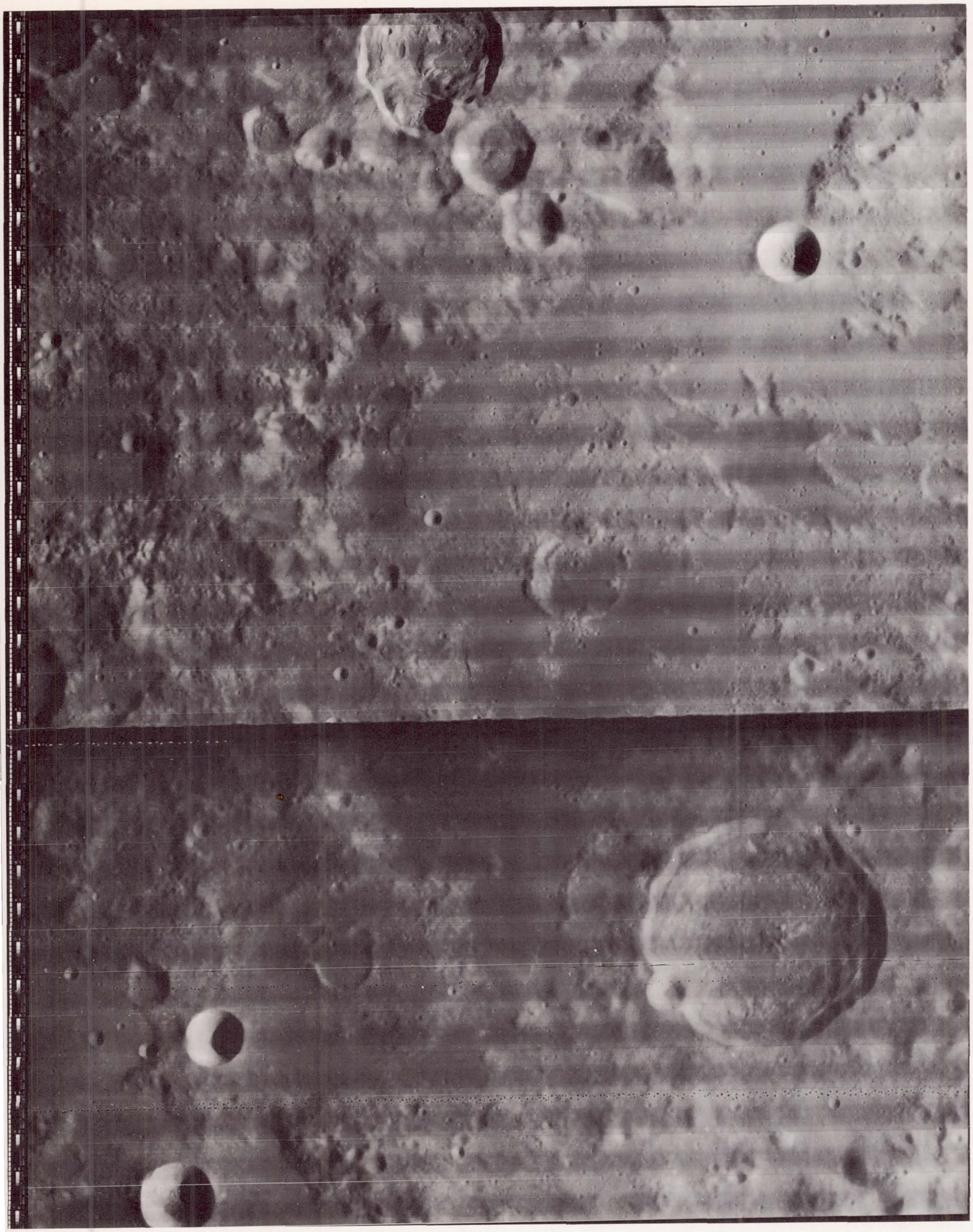



PHOTO NO. IV 66-M

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | 43.04 |
| | LAT. | 13.47 |
| NORTH DEVIATION (DEG.) ..... | | 354.56 |
| SUN ANGLE ..... | | 63.98 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2730.73 |

PLATE 227

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-66-H3

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | 43.04 |
| | LAT. | 13.47 |
| NORTH DEVIATION (DEG.) ..... | | 354.57 |
| SUN ANGLE ..... | | 65.8 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2730.73 |

N

1 CENTIMETER ≈11 KILOMETERS

MACROBIUS ....C12
NEWCOMB ..... G1

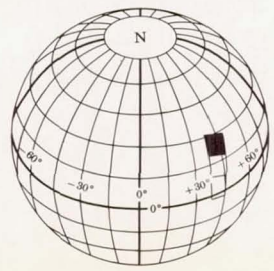
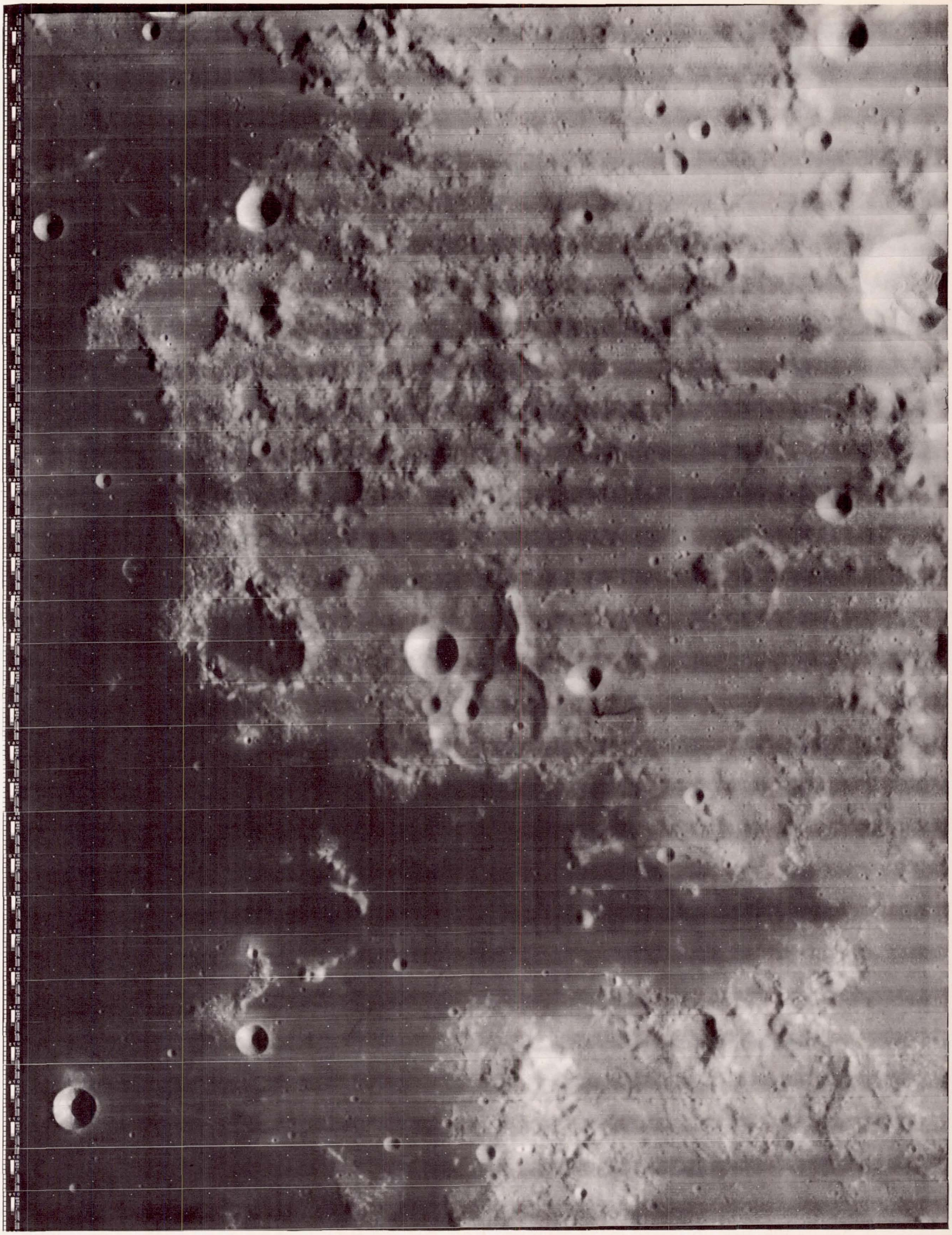
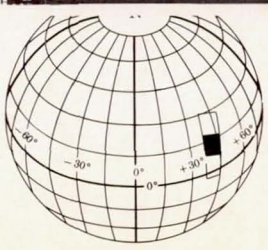



PLATE 228

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| CAUCHY | A14 |
| DAVINCI | K14 |
| LYELL | D8 |
| PALUS SOMNII | E8 |
| PROCLUS | M4 |

1 CENTIMETER ≈ 11 KILOMETERS

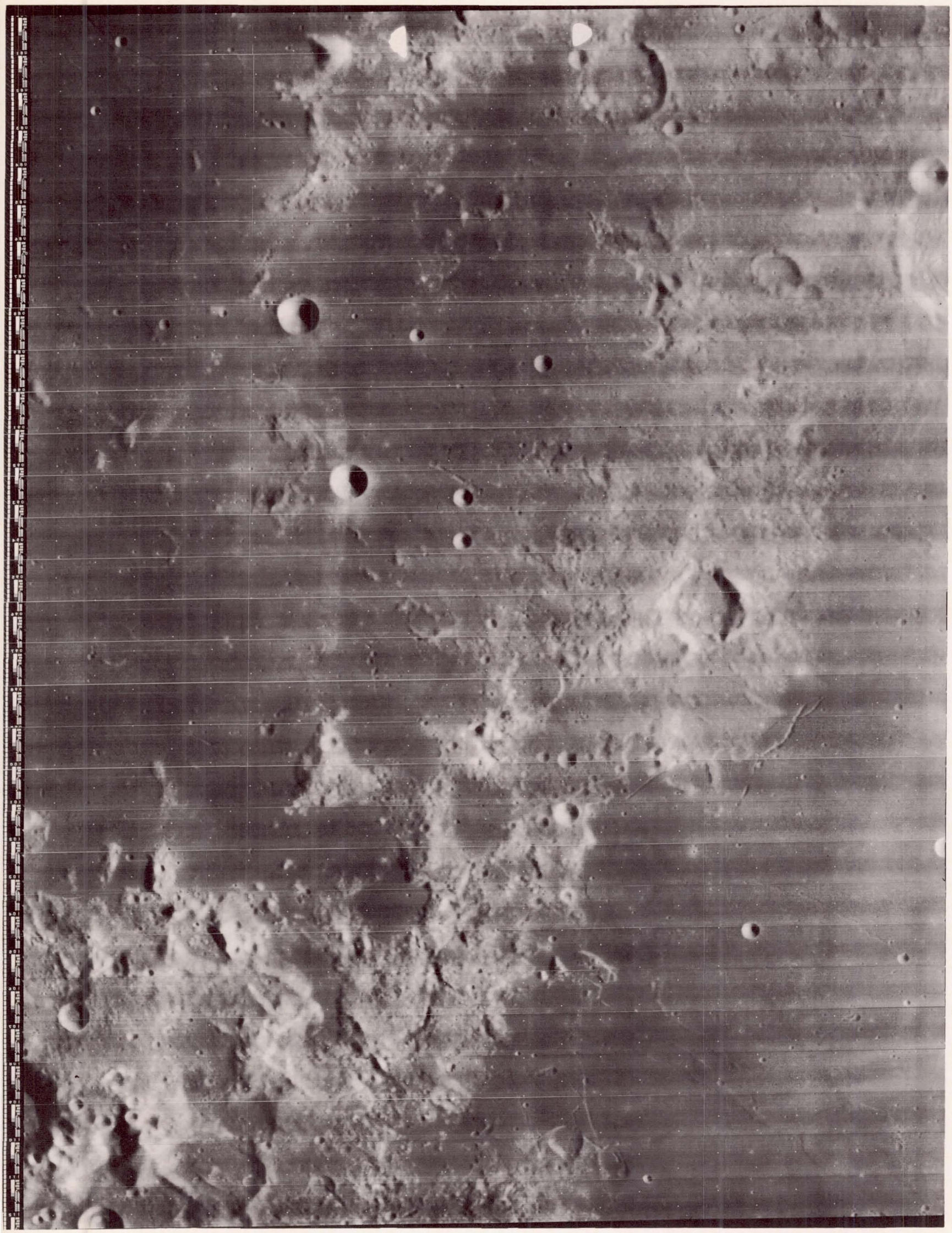
N

PHOTO NO. IV-66-H2

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | 43.04 |
| LAT. | 13.47 |
| NORTH DEVIATION (DEG.) | 354.57 |
| SUN ANGLE | 65.8 |
| SPACECRAFT ALTITUDE (KM) | 2730.73 |

PLATE 229

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-66-H1

CENTER COORDINATES ..... LONG. 43.04
LAT. 13.47
NORTH DEVIATION (DEG.) ..... 354.57
SUN ANGLE ..... 65.8
SPACECRAFT ALTITUDE (KM) ..... 2730.73

N

1 CENTIMETER ≈ 11 KILOMETERS

SECCHI .... D8

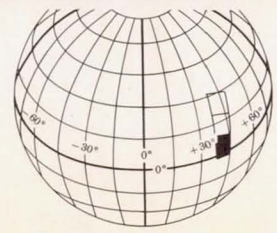
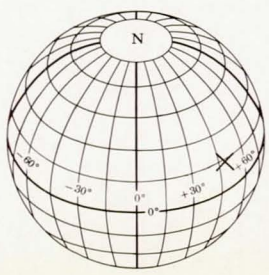



PLATE 230

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME



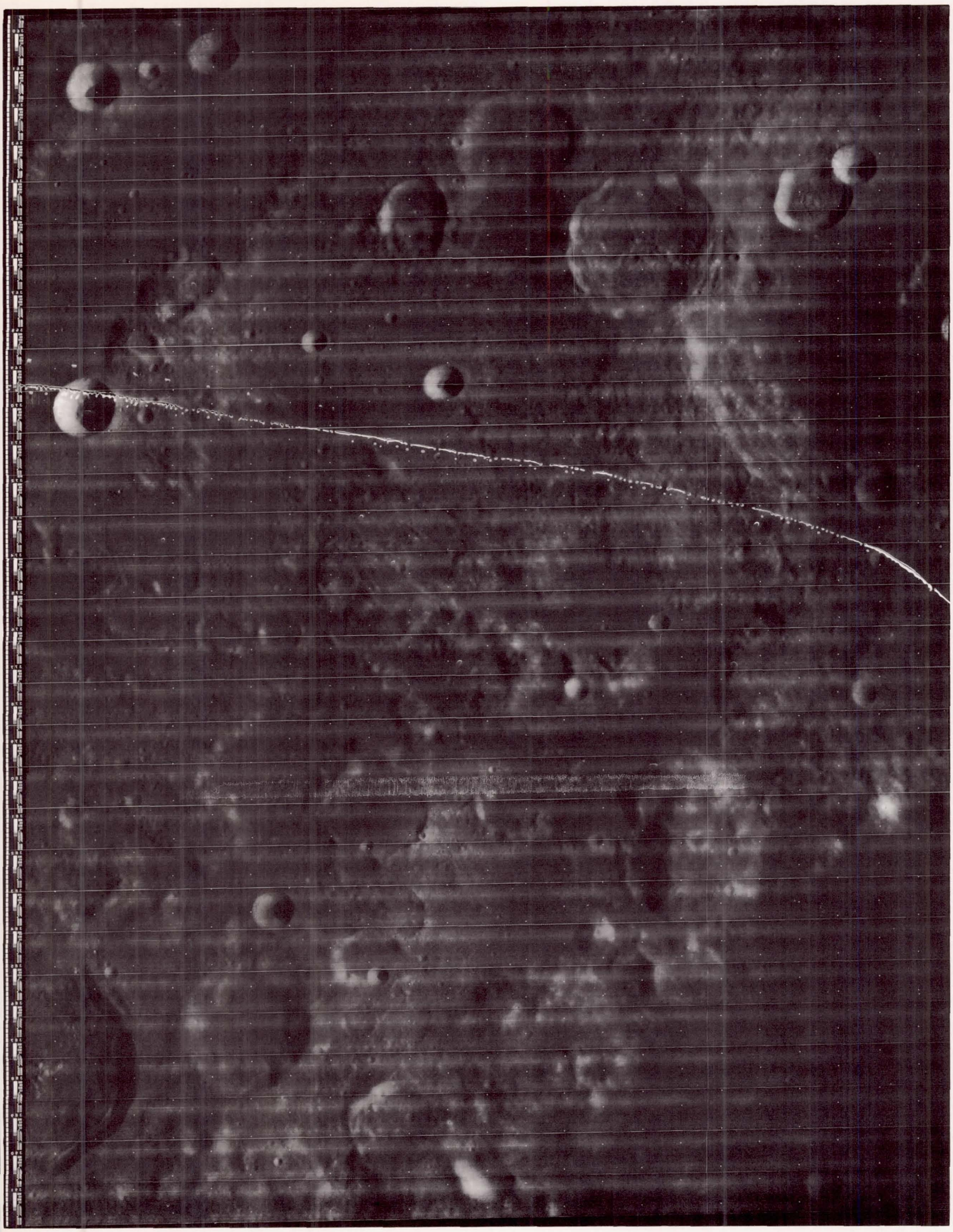

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-61-M

CENTER COORDINATES ..... LONG. 49.69
LAT. 14.14
NORTH DEVIATION (DEG.) ..... 355.66
SUN ANGLE ..... 65.4
SPACECRAFT ALTITUDE (KM) ..... 2734.01

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-61-H3

CENTER COORDINATES ..... LONG. 49.69
LAT. 14.14
NORTH DEVIATION (DEG.) ..... 355.66
SUN ANGLE ..... 65.4
SPACECRAFT ALTITUDE (KM) .... 2734.00

N

1 CENTIMETER ≈ 11 KILOMETERS

CLEOMEDES ..... A5
DEBES ..... F2
MACROBIUS .... M14
TISSERAND ..... J13
TRALLES ..... D3

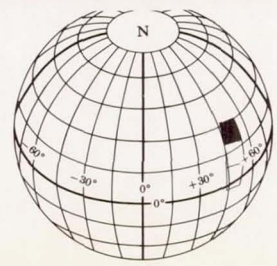
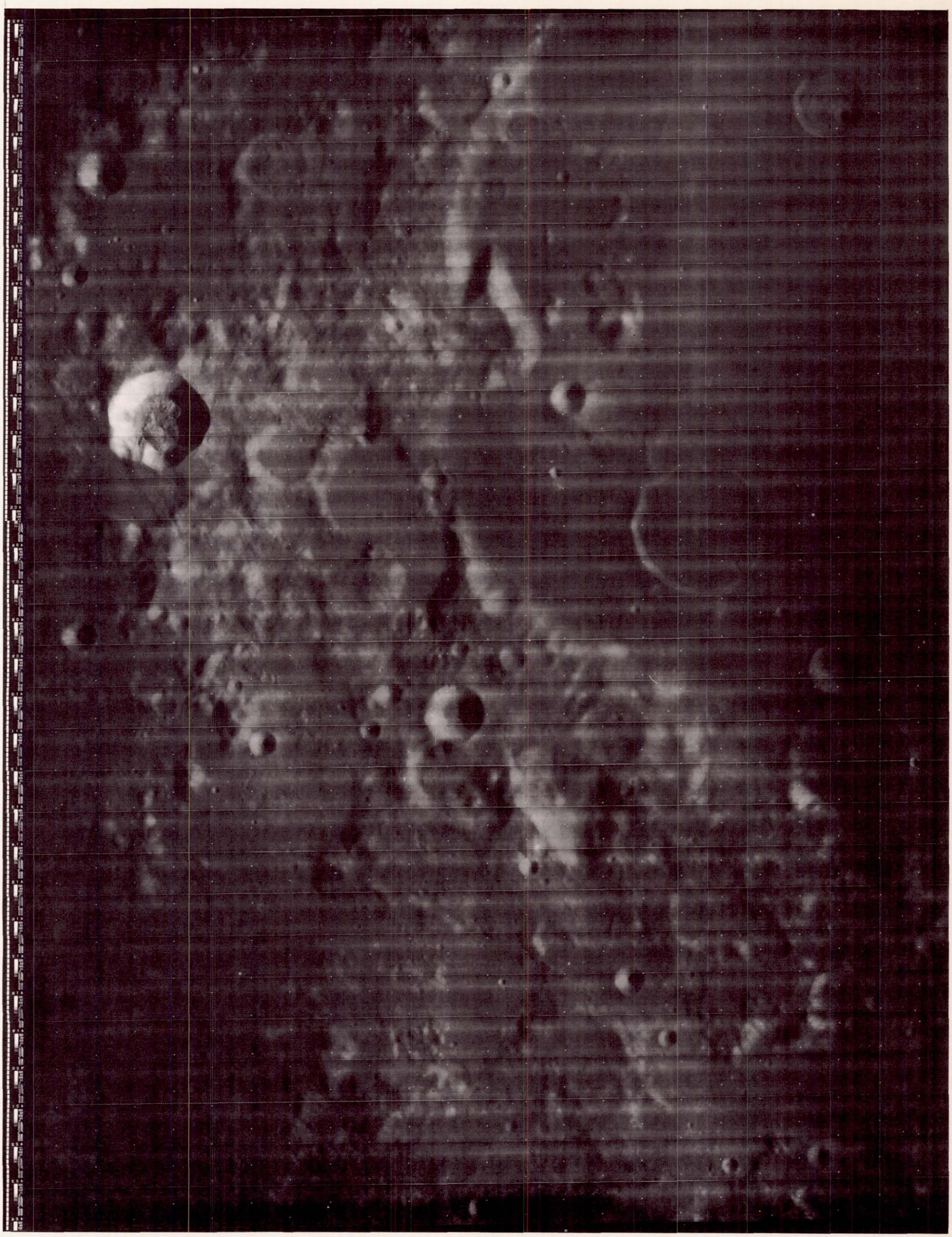
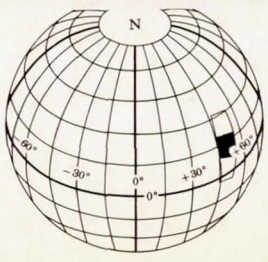



PLATE 232






LICK ..... L10
MARIA CRESIUM .... K5
PROCLUS ..... C6
YERKES ..... J7

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-61-H2

CENTER COORDINATES ..... LONG. 49.69
LAT. 14.14
NORTH DEVIATION (DEG.) ..... 355.66
SUN ANGLE ..... 65.4
SPACECRAFT ALTITUDE (KM) ..... 2734.00

PLATE 233

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

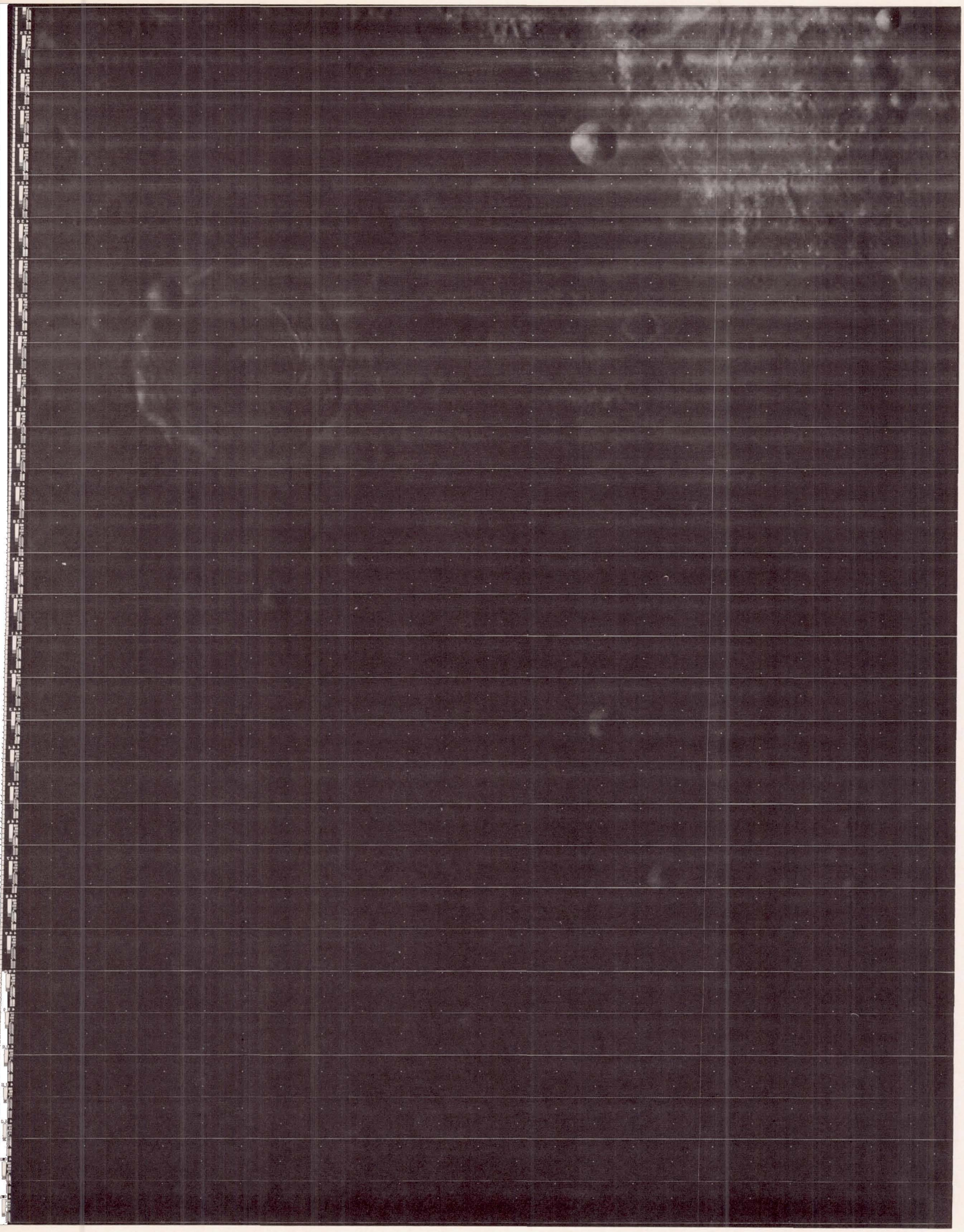


PHOTO NO. IV-61-H1

CENTER COORDINATES ..... LONG. 49.69
LAT. 14.14
NORTH DEVIATION (DEG.) ..... 355.66
SUN ANGLE ..... 65.4
SPACECRAFT ALTITUDE (KM) ..... 2734.00

N

1 CENTIMETER ≈ 11 KILOMETERS

TARUNTIUS .... J5

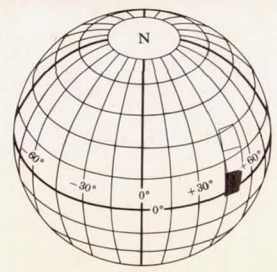
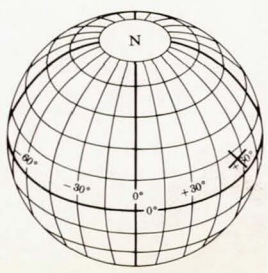



PLATE 234

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 87 KILOMETERS

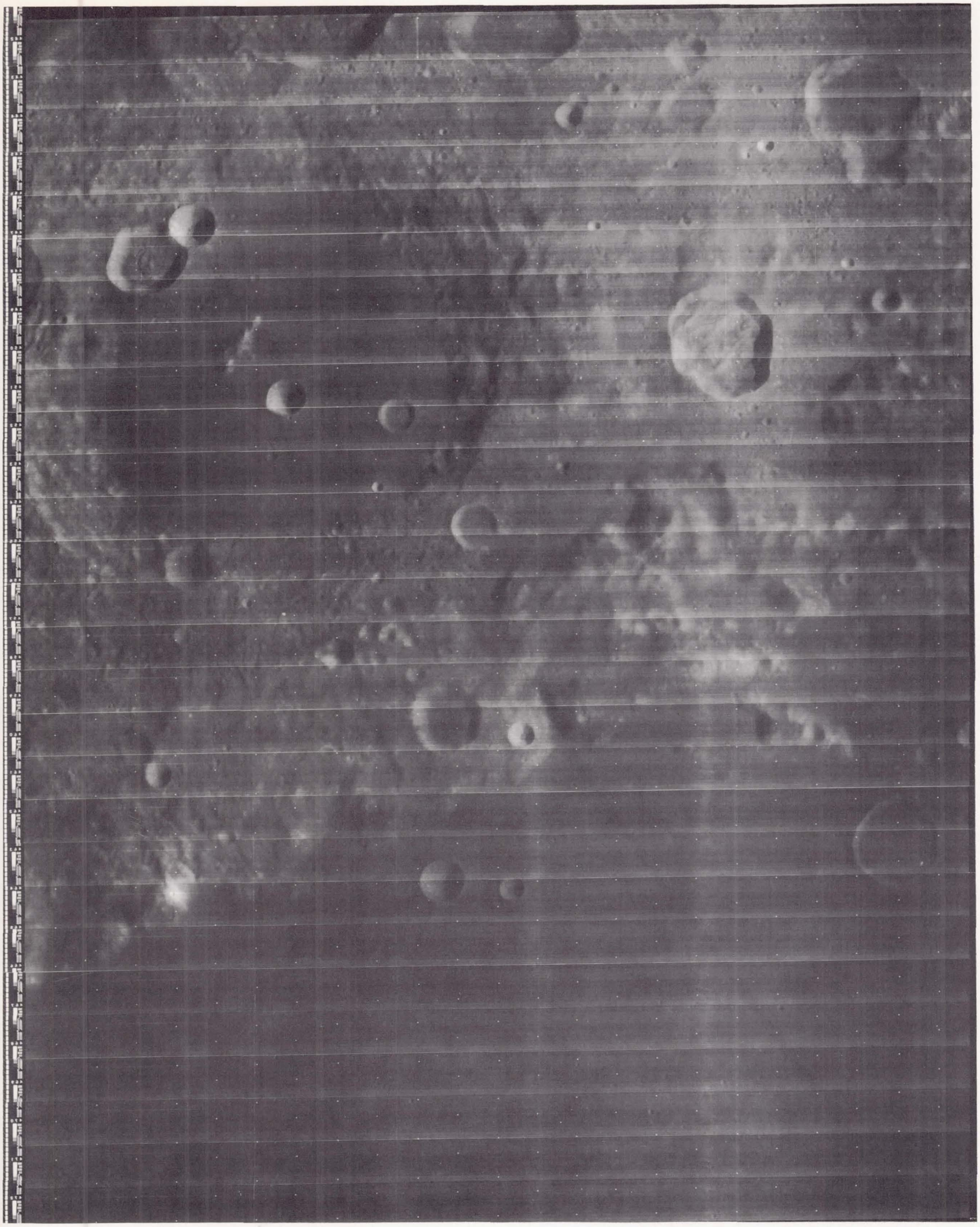
N

PHOTO NO. IV-54-M

| | | |
|---|---|---|
| CENTER COORDINATES | LONG | 56.70 |
| | LAT. | 13.60 |
| NORTH DEVIATION (DEG.) | | 354.72 |
| SUN ANGLE | | 64.5 |
| SPACECRAFT ALTITUDE (KM) | | 2736.66 |

PLATE 235

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-54-H3

CENTER COORDINATES ..... LONG. 56.70
LAT. 13.59
NORTH DEVIATION (DEG.) ..... 354.72
SUN ANGLE ..... 64.5
SPACECRAFT ALTITUDE (KM) ..... 2736.65

N

1 CENTIMETER≈ 11 KILOMETERS

BURCKHART ..... F1
CLEOMEDES ..... J5
MARE CRISIUM .... F13

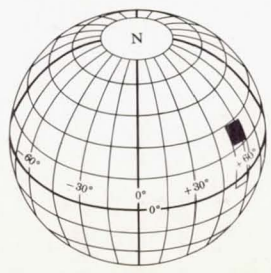
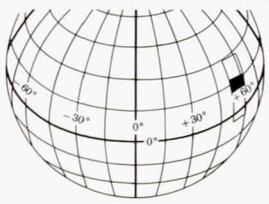



PLATE 236

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




LICK ..... A12
PEIRCE ..... B2
PICARD ..... D8

1 CENTIMETER ≈ 11 KILOMETERS

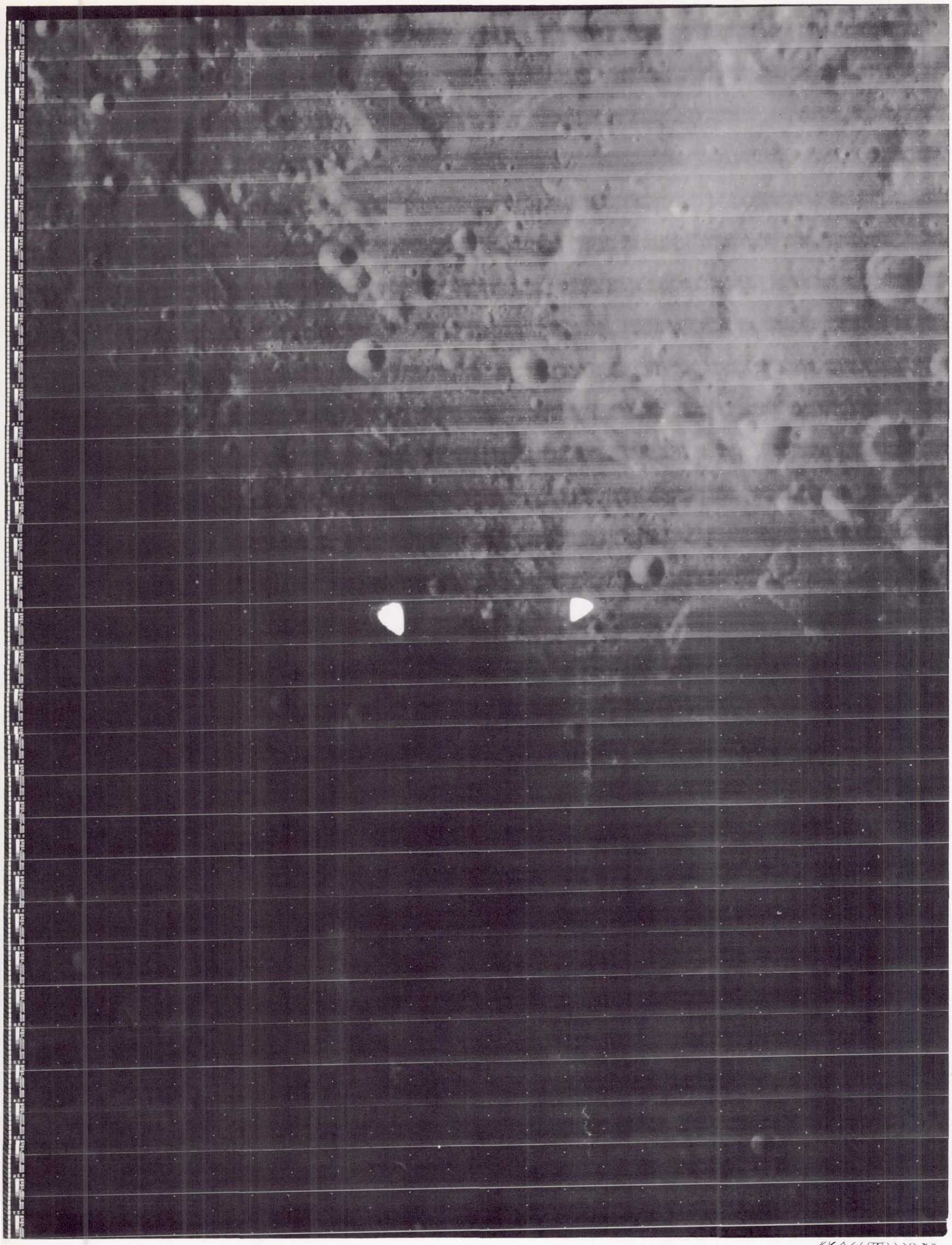
N

PHOTO NO. IV-54-H2

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | 56.70 |
| | LAT. | 13.59 |
| NORTH DEVIATION (DEG.) ..... | | 354.72 |
| SUN ANGLE ..... | | 64.5 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2736.65 |

PLATE 237

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-54-H1

CENTER COORDINATES ..... LONG. 56.70
LAT. 13.59
NORTH DEVIATION (DEG.) .....354.72
SUN ANGLE ..... 64.5
SPACECRAFT ALTITUDE (KM) .....2736.65

N

1 CENTIMETER ≈ 11 KILOMETERS

MARE FECUNDITATIS ..... F11

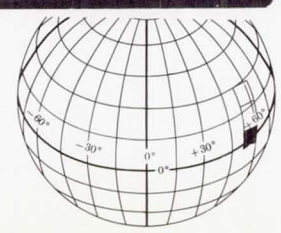
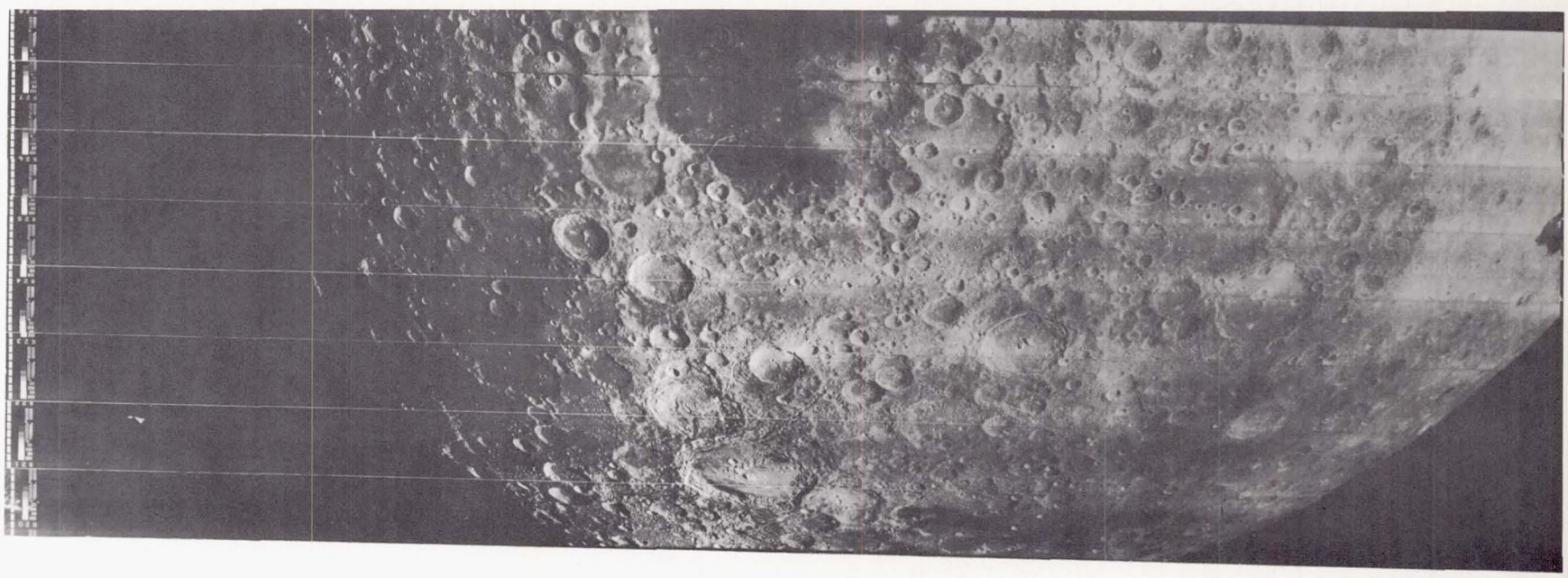
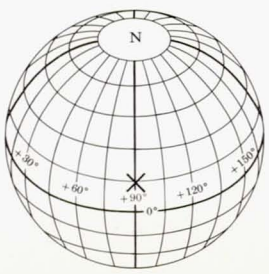



PLATE 238

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 87 KILOMETERS

N

PHOTO NO. IV-17-M

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. 90.44 |
| | LAT. 14.25 |
| NORTH DEVIATION (DEG.) ..... | 354.17 |
| SUN ANGLE ..... | 61.5 |
| SPACECRAFT ALTITUDE (KM) ..... | 2739.08 |

PLATE 239

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-18-H3

CENTER COORDINATES ..... LONG. 90.47
LAT. 14.63
NORTH DEVIATION (DEG.) ..... 354.17
SUN ANGLE ..... 61.6
SPACECRAFT ALTITUDE (KM) .... 2739.66

N

1 CENTIMETER ≈ 11 KILOMETERS

HOBBLE ..... K13
JOLIOT-CURIE .... C8
LIAPUNOV ..... H8

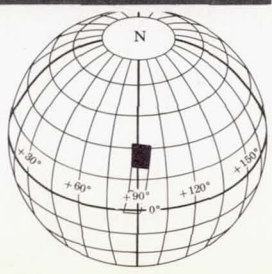
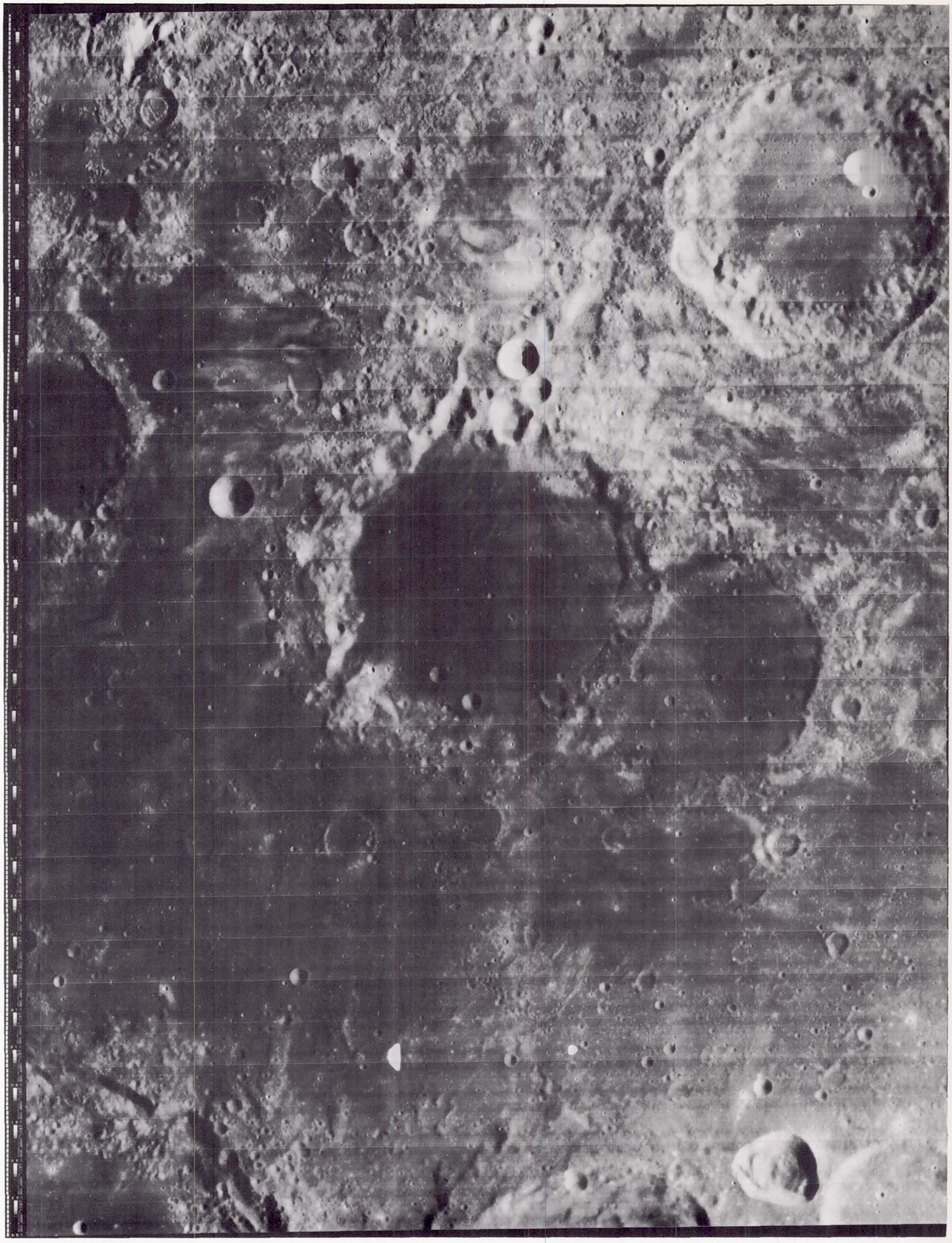
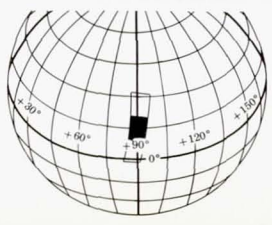



PLATE 240

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






GODDARD ....G8
NEPER ..... A16

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-18-H2

CENTER COORDINATES ..... LONG. 90.47
LAT. 14.63
NORTH DEVIATION (DEG.) ..... 354.17
SUN ANGLE ..... 61.6
SPACECRAFT ALTITUDE (KM) ..... 2739.66

PLATE 241

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

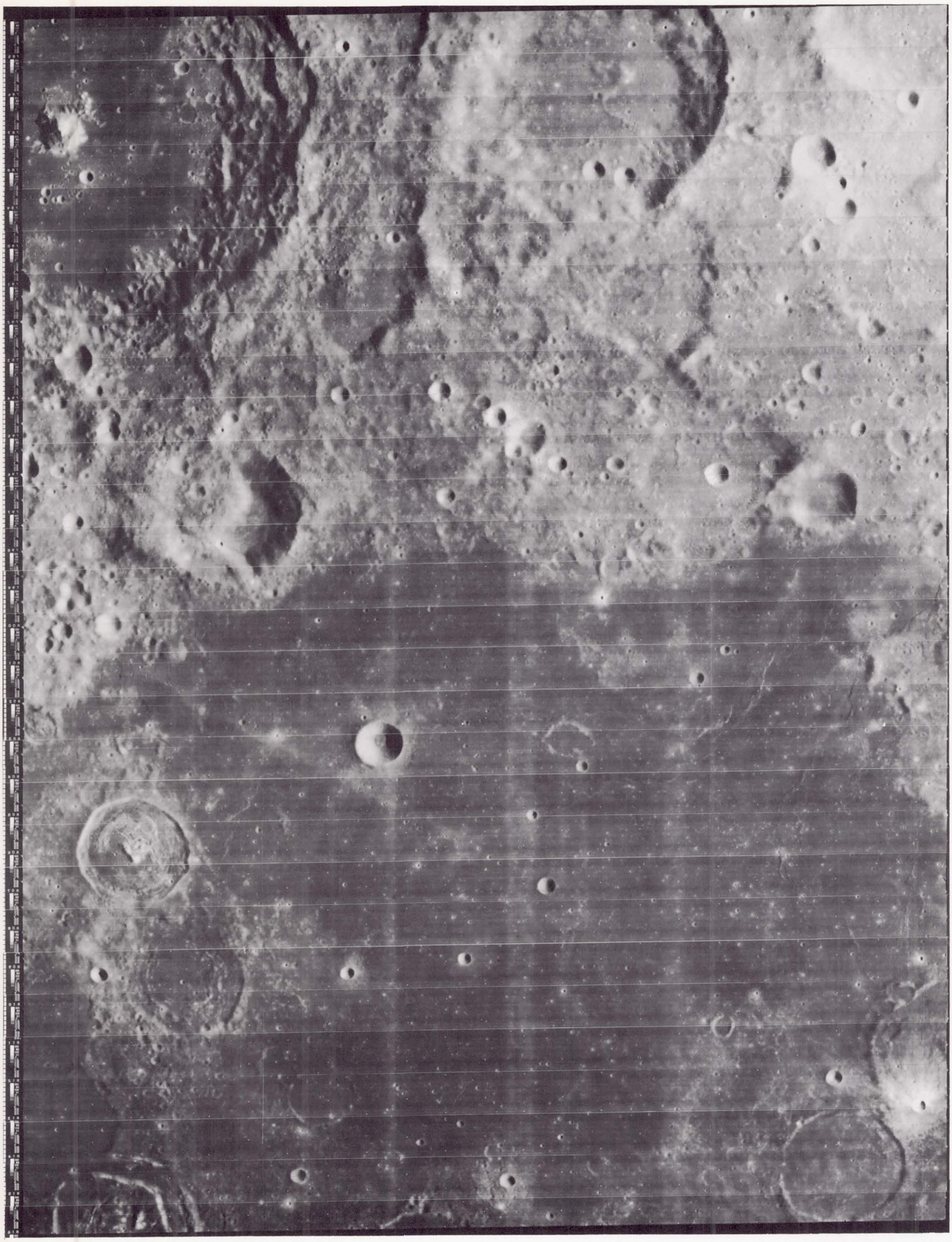


PHOTO NO. IV-18-H1

CENTER COORDINATES ..... LONG. 90.47
LAT. 14.63
NORTH DEVIATION (DEG.) ..... 354.17
SUN ANGLE ..... 61.6
SPACECRAFT ALTITUDE (KM) .... 2739.66

N

1 CENTIMETER ≈ 11 KILOMETERS

JANSKY .... E2

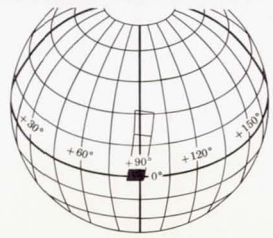
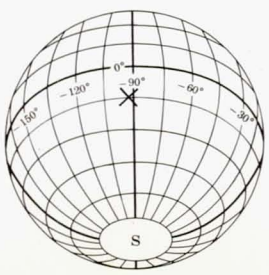



PLATE 242

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER≈ 86 KILOMETERS

N

PHOTO NO. IV-195-M

CENTER COORDINATES ..... LONG. −94.60
LAT. −14.91
NORTH DEVIATION (DEG.) ..... 5.21
SUN ANGLE ..... 75.5
SPACECRAFT ALTITUDE (KM) ..... 2721.44

PLATE 243

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

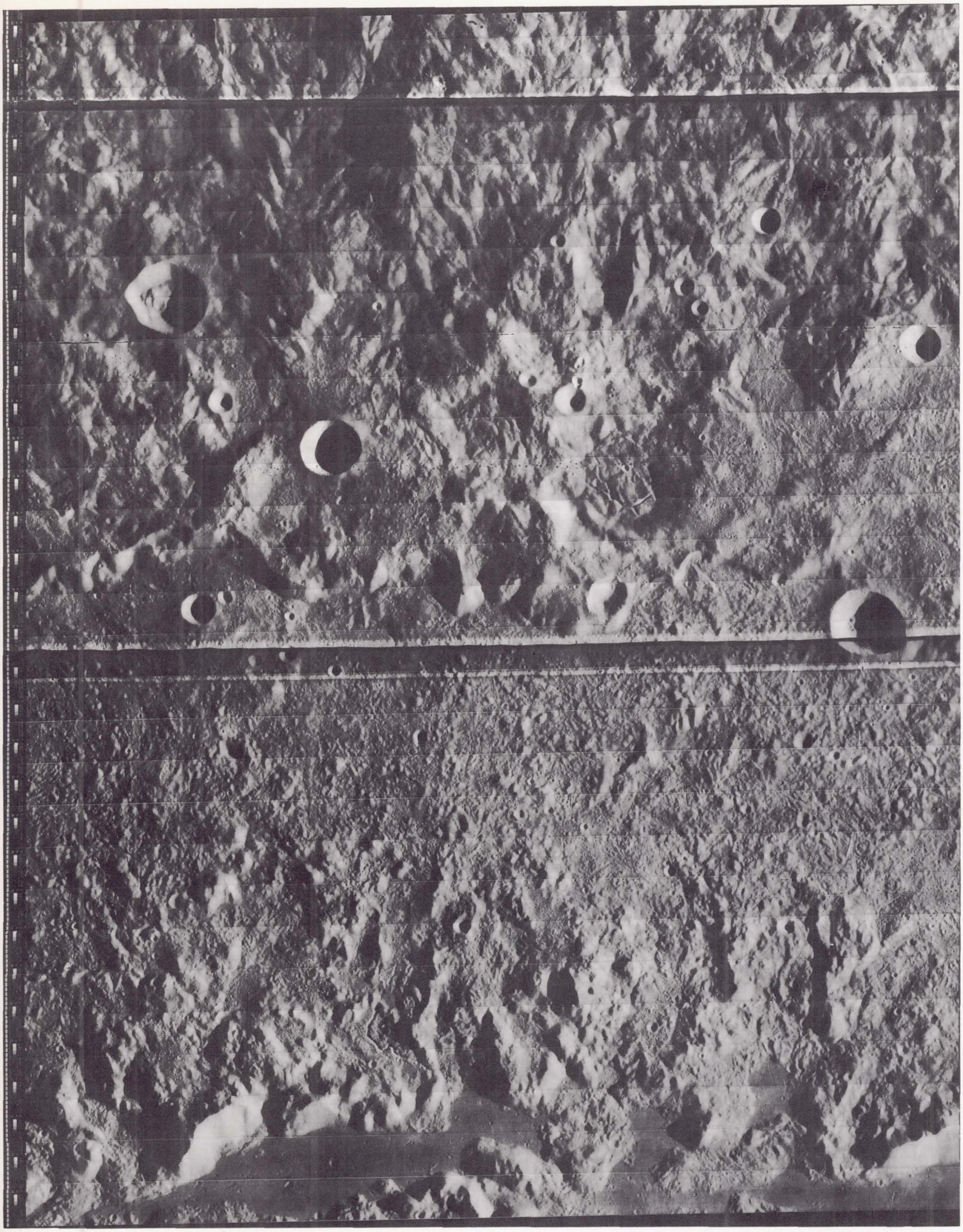


*PHOTO NO. IV-195-H3*

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | −94.60 |
| | LAT. | −14.91 |
| NORTH DEVIATION (DEG.) | | 5.21 |
| SUN ANGLE | | 75.5 |
| SPACECRAFT ALTITUDE (KM) | | 2721.45 |

N

1 CENTIMETER ≈ 11 KILOMETERS

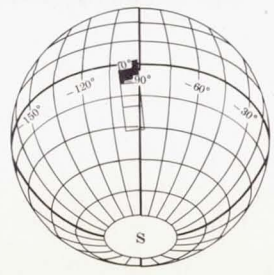
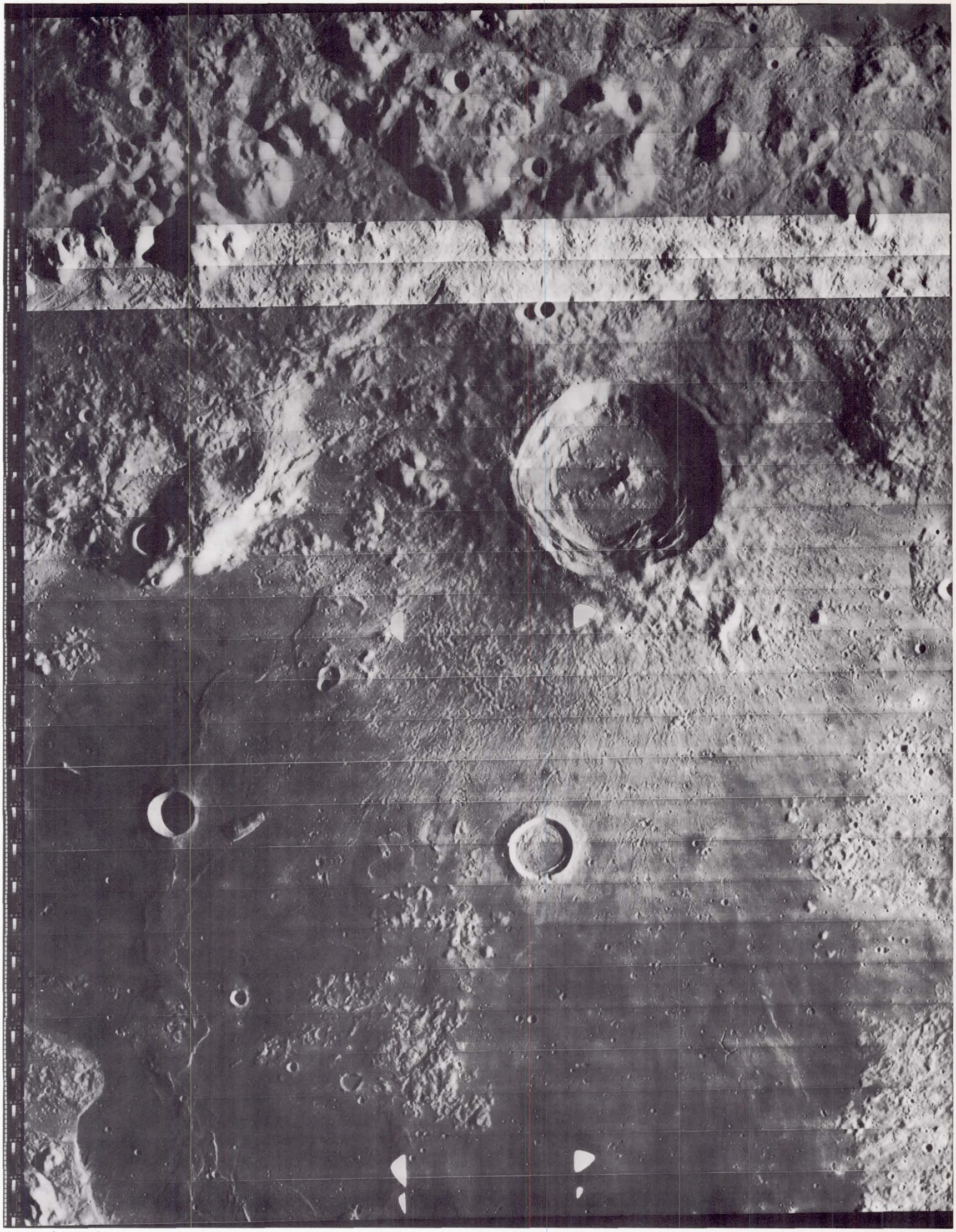
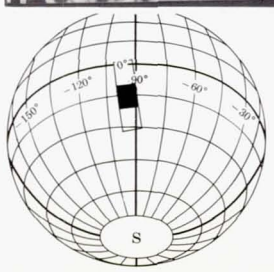



PLATE 244




1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-195-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −94.60 |
| | LAT. −14.91 |
| NORTH DEVIATION (DEG.) ..... | 5.21 |
| SUN ANGLE ..... | 75.5 |
| SPACECRAFT ALTITUDE (KM) ..... | 2721.45 |

PLATE 245

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-195-H1

CENTER COORDINATES ..... LONG. –94.60
LAT. –14.91
NORTH DEVIATION (DEG.) ..... 5.21
SUN ANGLE ..... 75.5
SPACECRAFT ALTITUDE (KM) ..... 2721.45

N

1 CENTIMETER ≈ 11 KILOMETERS

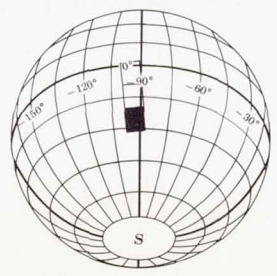
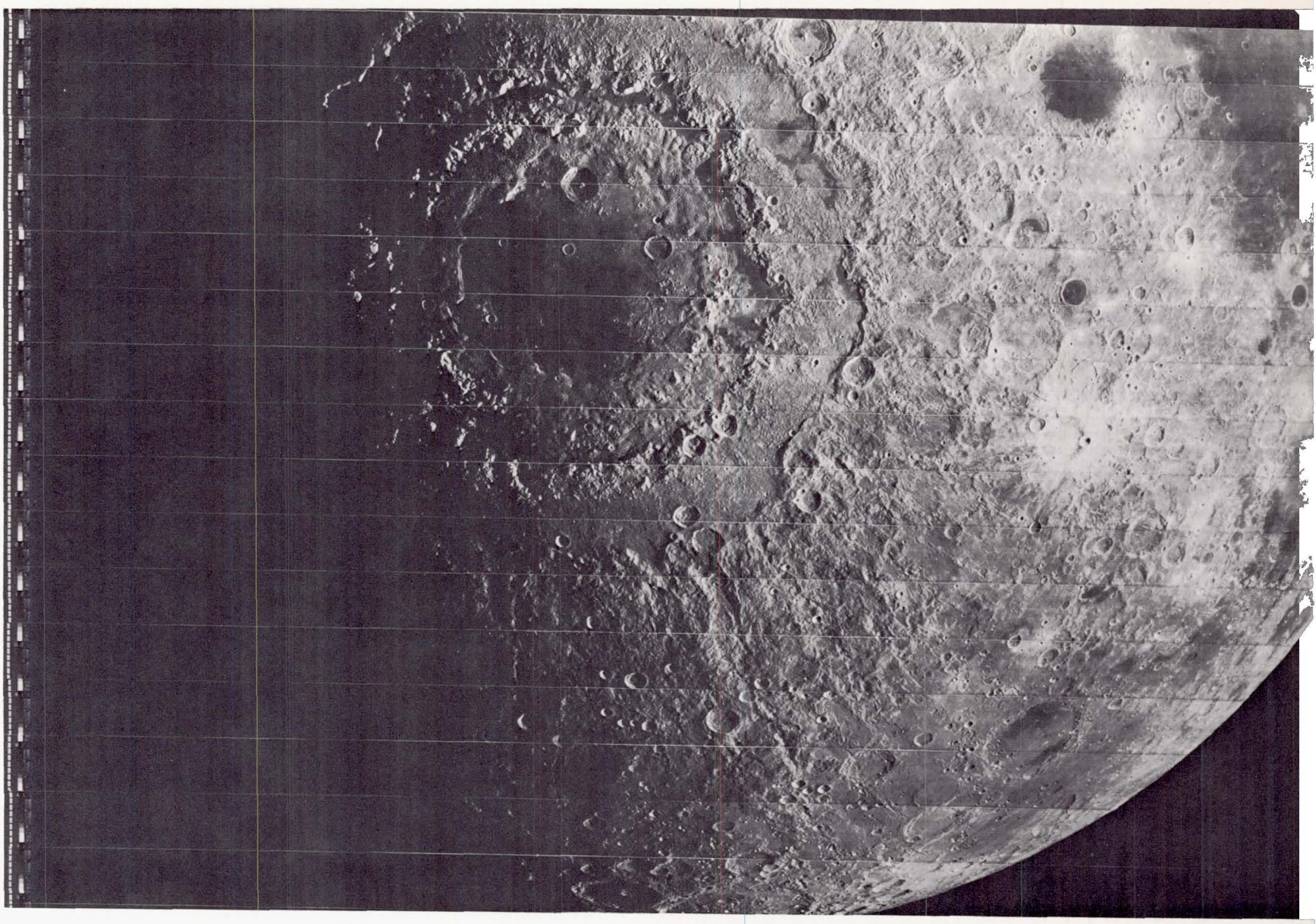
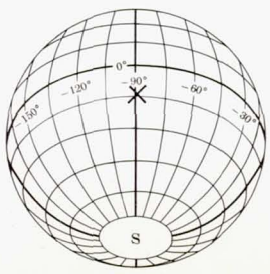



PLATE 246

A • B • C • D • E • F • G • H • J • K • L • M



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




MARE HUMORUM .... M2
MARE ORIENTALE .... F3

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-187-M

CENTER COORDINATES ..... LONG. −89.06
LAT. −14.96
NORTH DEVIATION (DEG.) ..... 4.70
SUN ANGLE ..... 76.1
SPACECRAFT ALTITUDE (KM) ..... 2722.79

PLATE 247

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-187-H3

CENTER COORDINATES ..... LONG—89.06
LAT. —14.97
NORTH DEVIATION (DEG.) ..... 4.70
SUN ANGLE ..... 76.1
SPACECRAFT ALTITUDE (KM) ..... 2722.80

N

1 CENTIMETER ≈ 11 KILOMETERS

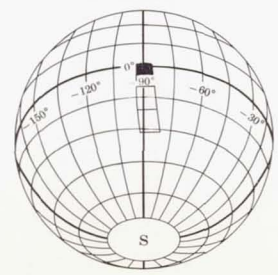
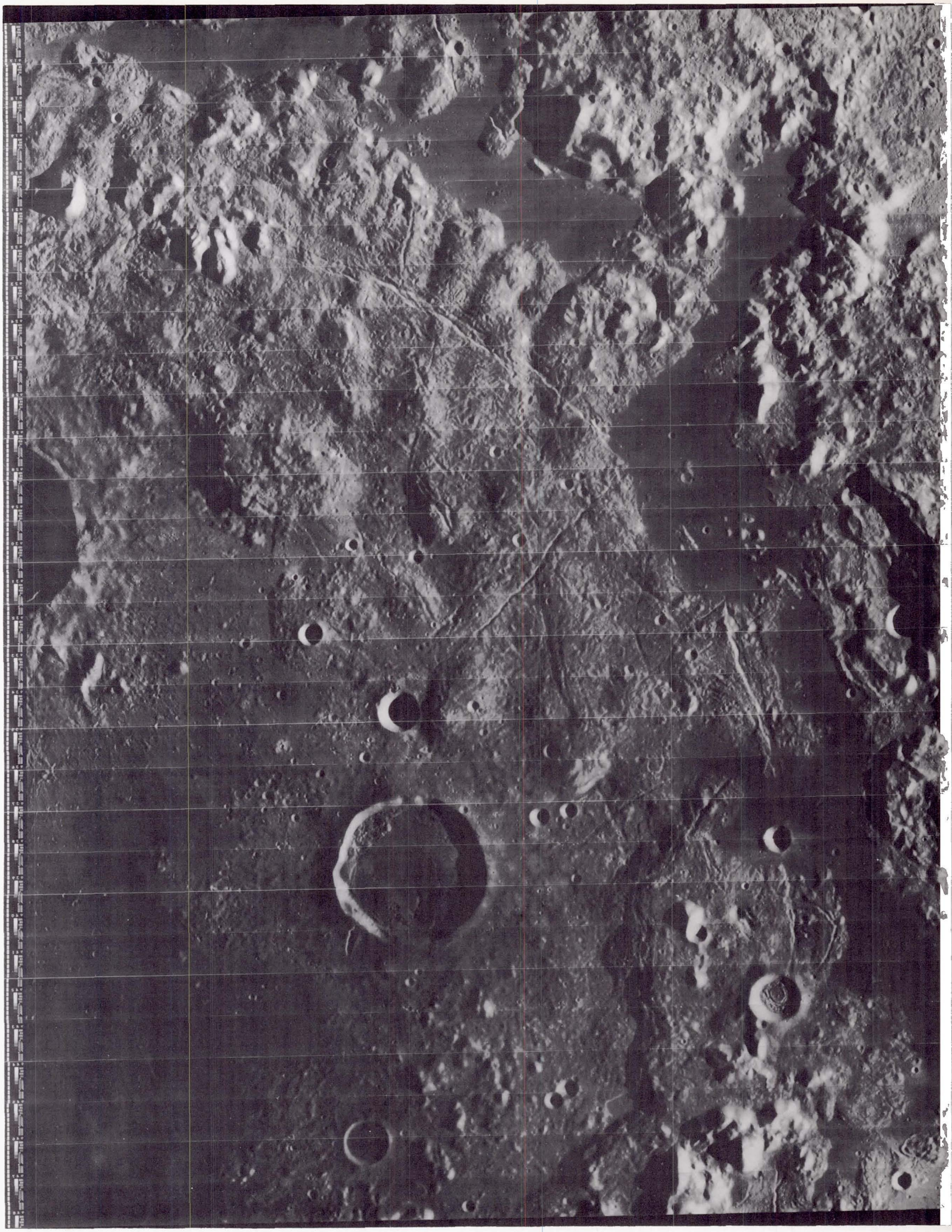
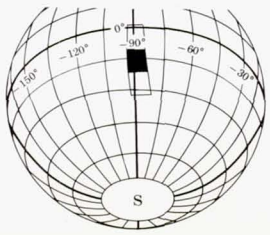



PLATE 248




1 CENTIMETER≈ 11 KILOMETERS

N

PHOTO NO. IV-187-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. —89.06 |
| | LAT. —14.97 |
| NORTH DEVIATION (DEG.) ..... | 4.70 |
| SUN ANGLE ..... | 76.1 |
| SPACECRAFT ALTITUDE (KM) ..... | 2722.80 |

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-187-H1

CENTER COORDINATES ..... LONG. —89.06
LAT. —14.97
NORTH DEVIATION (DEG.) ..... 4.70
SUN ANGLE ..... 76.1
SPACECRAFT ALTITUDE (KM) ..... 2722.80

N

1 CENTIMETER ≈ 11 KILOMETERS

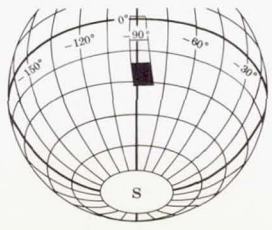
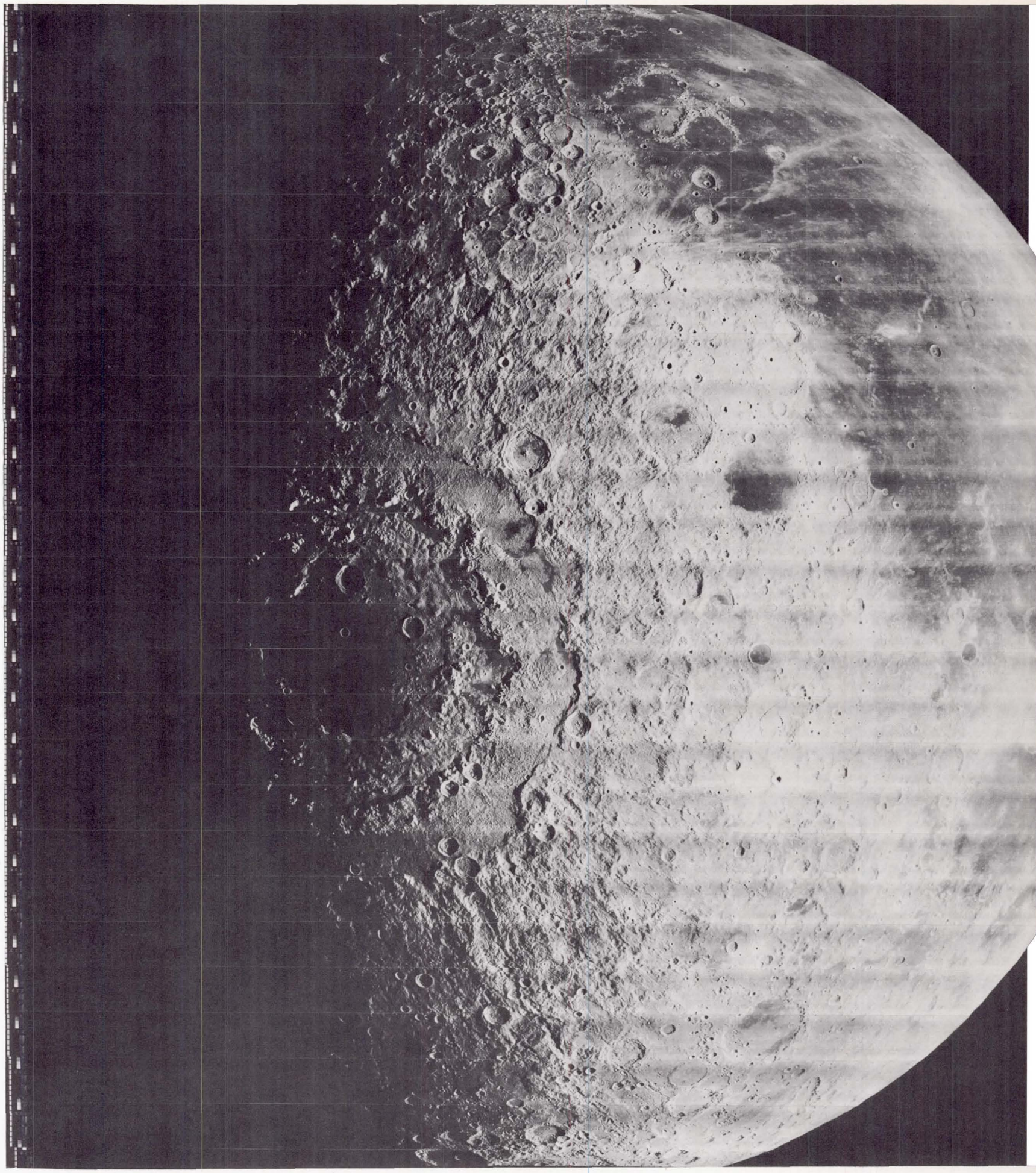
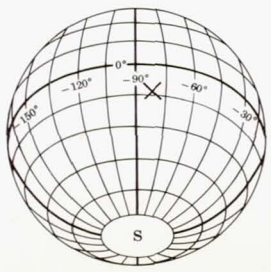



PLATE 250

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... M9
MARE ORIENTALE ..... D8
OCEANUS PROCELLARUM .... L3

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-181-M

CENTER COORDINATES ..... LONG. −82.18
LAT. −13.09
NORTH DEVIATION (DEG.) ..... 5.37
SUN ANGLE ..... 75.2
SPACECRAFT ALTITUDE (KM) ..... 2723.98

PLATE 251

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

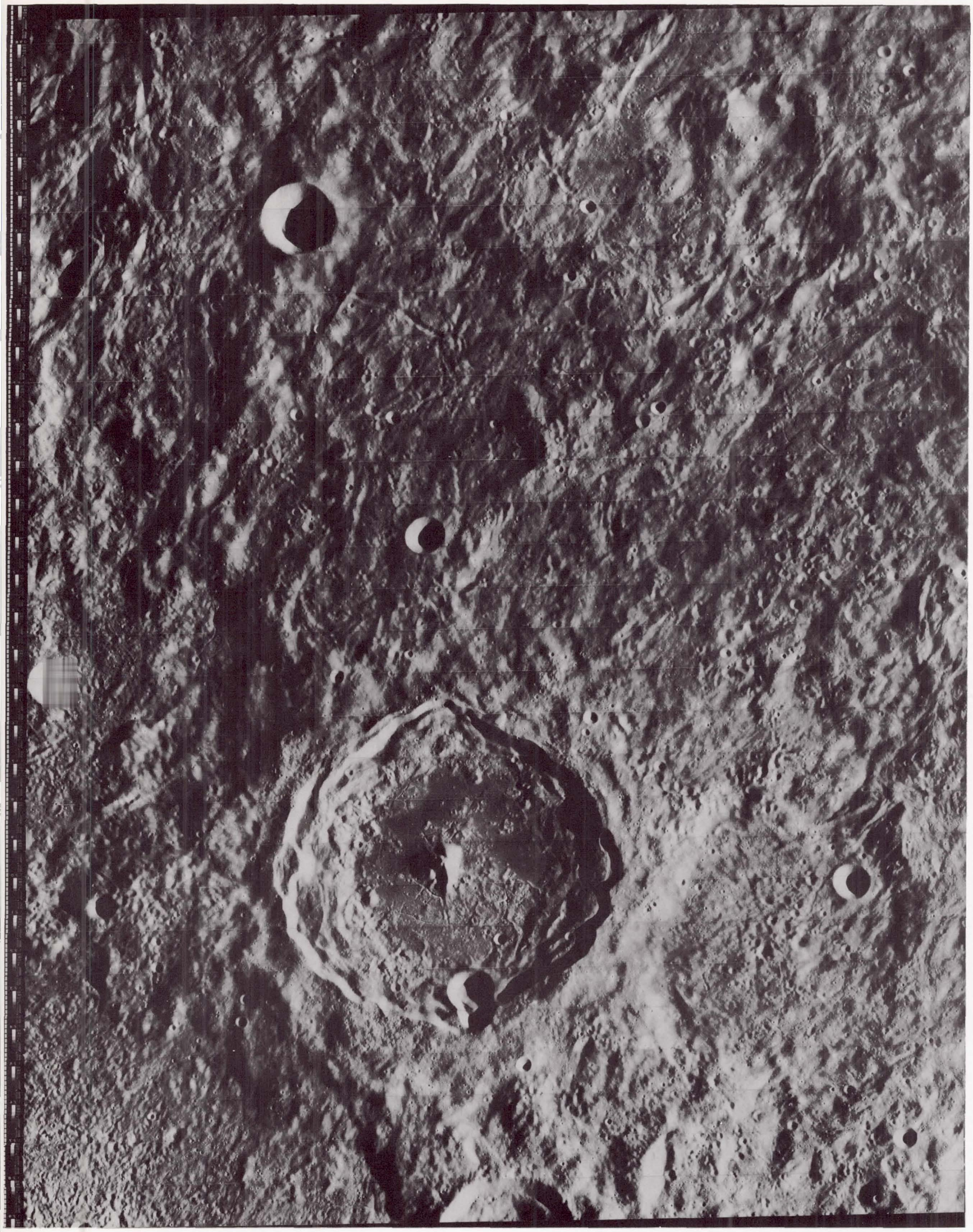


PHOTO NO. IV-181-H3

CENTER COORDINATES ..... LONG. −82.18
LAT. −13.09
NORTH DEVIATION (DEG.) ..... 5.37
SUN ANGLE ..... 75.2
SPACECRAFT ALTITUDE (KM) ..... 2723.99

N

1 CENTIMETER ≈ 11 KILOMETERS

HARTWIG ..... C13
SCHLÜTER .... G11

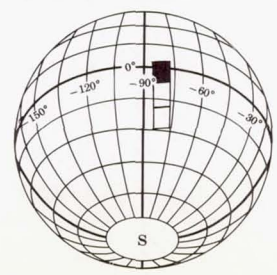
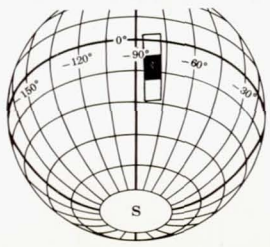



PLATE 252

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-181-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −82.18 |
| | LAT. −13.09 |
| NORTH DEVIATION (DEG.) ..... | 5.37 |
| SUN ANGLE ..... | 75.2 |
| SPACECRAFT ALTITUDE (KM) ..... | 2723.99 |

PLATE 253

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-181-H1

CENTER COORDINATES ..... LONG. −82.18
LAT. −13.09
NORTH DEVIATION (DEG.) ..... 5.37
SUN ANGLE ..... 75.2
SPACECRAFT ALTITUDE (KM) .... 2723.99

N

1 CENTIMETER ≈ 11 KILOMETERS

EICHSTADT .... B5
KRASNOV ..... E14

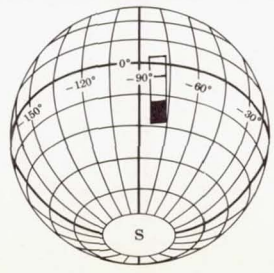
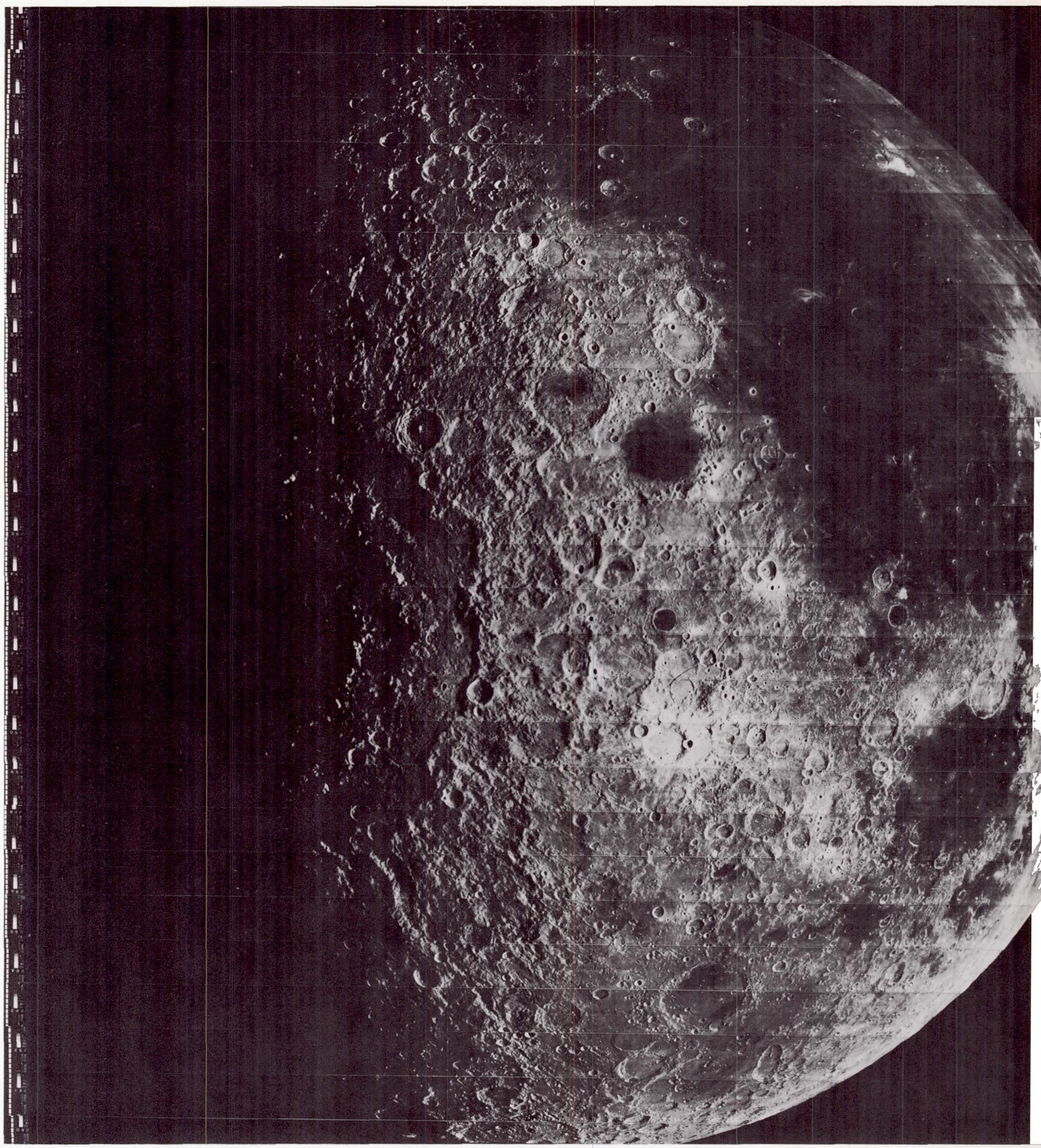
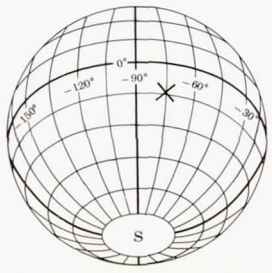



PLATE 254

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... L10
MARE ORIENTALE ..... D8
OCEANUS PROCELLARUM .... K2

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-173-M

CENTER COORDINATES ..... LONG. —75.41
LAT. —14.76
NORTH DEVIATION (DEG.) ..... 5.01
SUN ANGLE ..... 74.6
SPACECRAFT ALTITUDE (KM) ..... 2724.03

PLATE 255

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-173-H3

CENTER COORDINATES ..... LONG.—75.41
LAT. —14.77
NORTH DEVIATION (DEG.) ..... 5.01
SUN ANGLE ..... 74.6
SPACECRAFT ALTITUDE (KM) ..... 2724.05

N

1 CENTIMETER ≈ 11 KILOMETERS

RICCIOLI ..... D7
HARTWIG .... M11

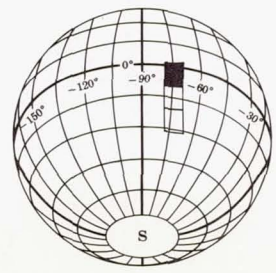
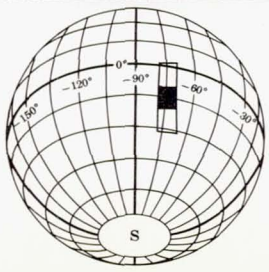



PLATE 256

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ROCCA .... K5

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-173-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. —75.41 |
| | LAT. —14.77 |
| NORTH DEVIATION (DEG.) ..... | 5.01 |
| SUN ANGLE ..... | 74.6 |
| SPACECRAFT ALTITUDE (KM) ..... | 2724.05 |

PLATE 257

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-173-H1

CENTER COORDINATES ..... LONG. —75.41
LAT. —14.77
NORTH DEVIATION (DEG.) ..... 5.01
SUN ANGLE ..... 74.6
SPACECRAFT ALTITUDE (KM) ..... 2724.05

N

1 CENTIMETER ≈ 11 KILOMETERS

EICHSTADT .... L3

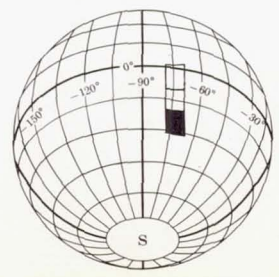
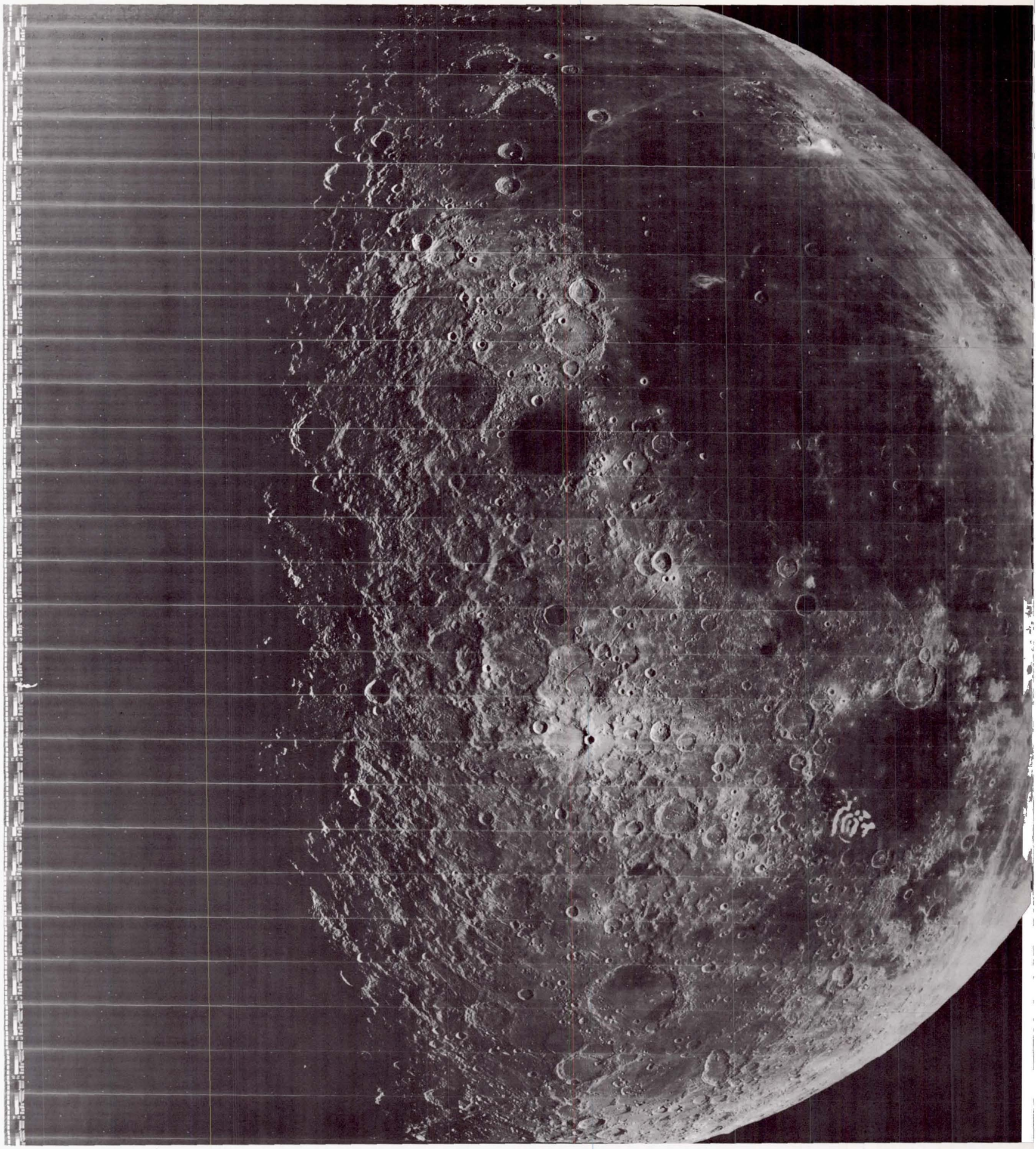
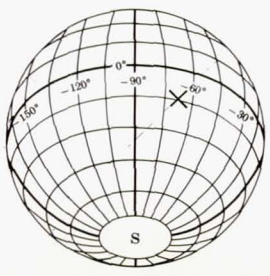



PLATE 258

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... L10
MARE ORIENTALE ..... D8
OCEANUS PROCELLARUM ..... K5

1 CENTIMETER≈ 86 KILOMETERS

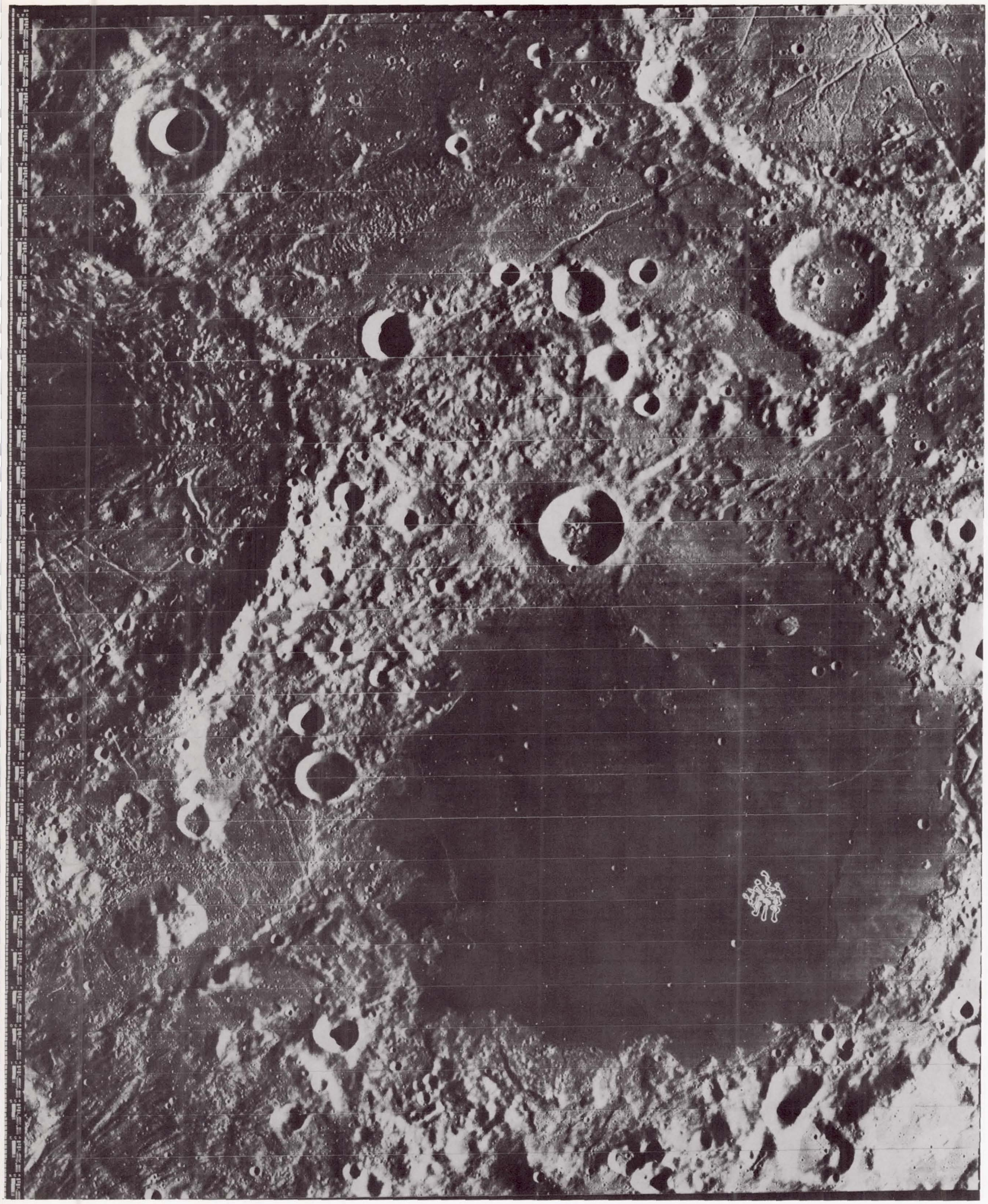
N

PHOTO NO.IV-168-M

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | −68.18 |
| | LAT. | −14.44 |
| NORTH DEVIATION (DEG.) ..... | | 5.29 |
| SUN ANGLE ..... | | 73.5 |
| SPACECRAFT ALTITUDE (KM) .... | | 2722.18 |

PLATE 259

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-168-H3

| | |
|---|---|
| CENTER COORDINATES ..... | LONG.—68.18 |
| | LAT. —14.45 |
| NORTH DEVIATION (DEG.) ..... | 5.29 |
| SUN ANGLE ..... | 73.5 |
| SPACECRAFT ALTITUDE (KM) ..... | 2722.19 |

N

1 CENTIMETER ≈ 11 KILOMETERS

GRIMALDI .... E11
RICCIOLI ..... M6

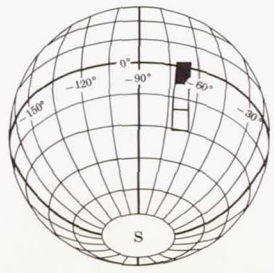
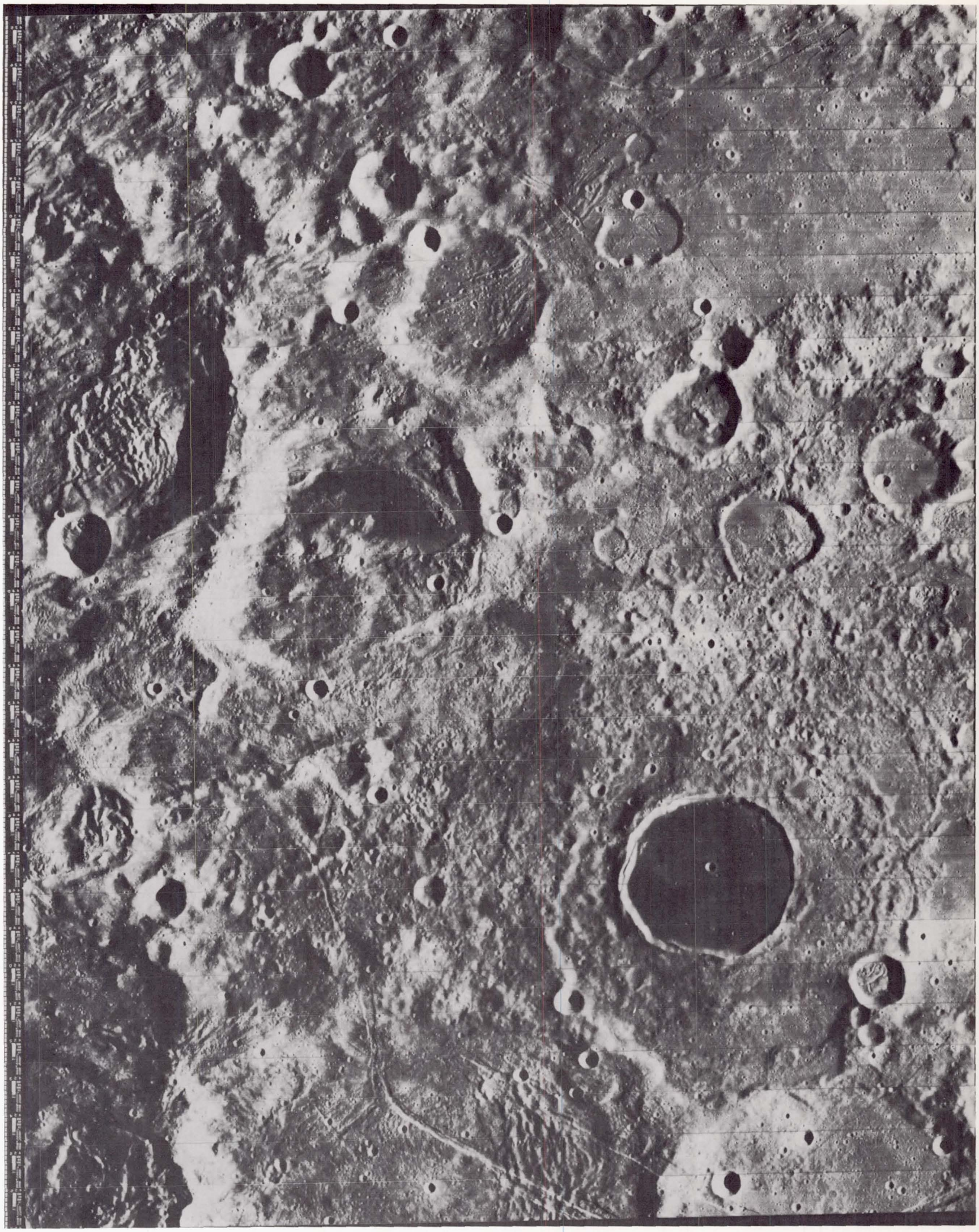
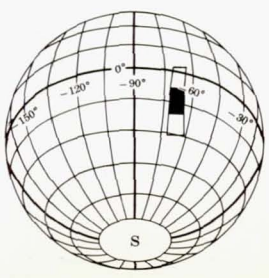



PLATE 260

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CRUGER ... J11
DARWIN ... E15

1 CENTIMETER ≈ 11 KILOMETERS

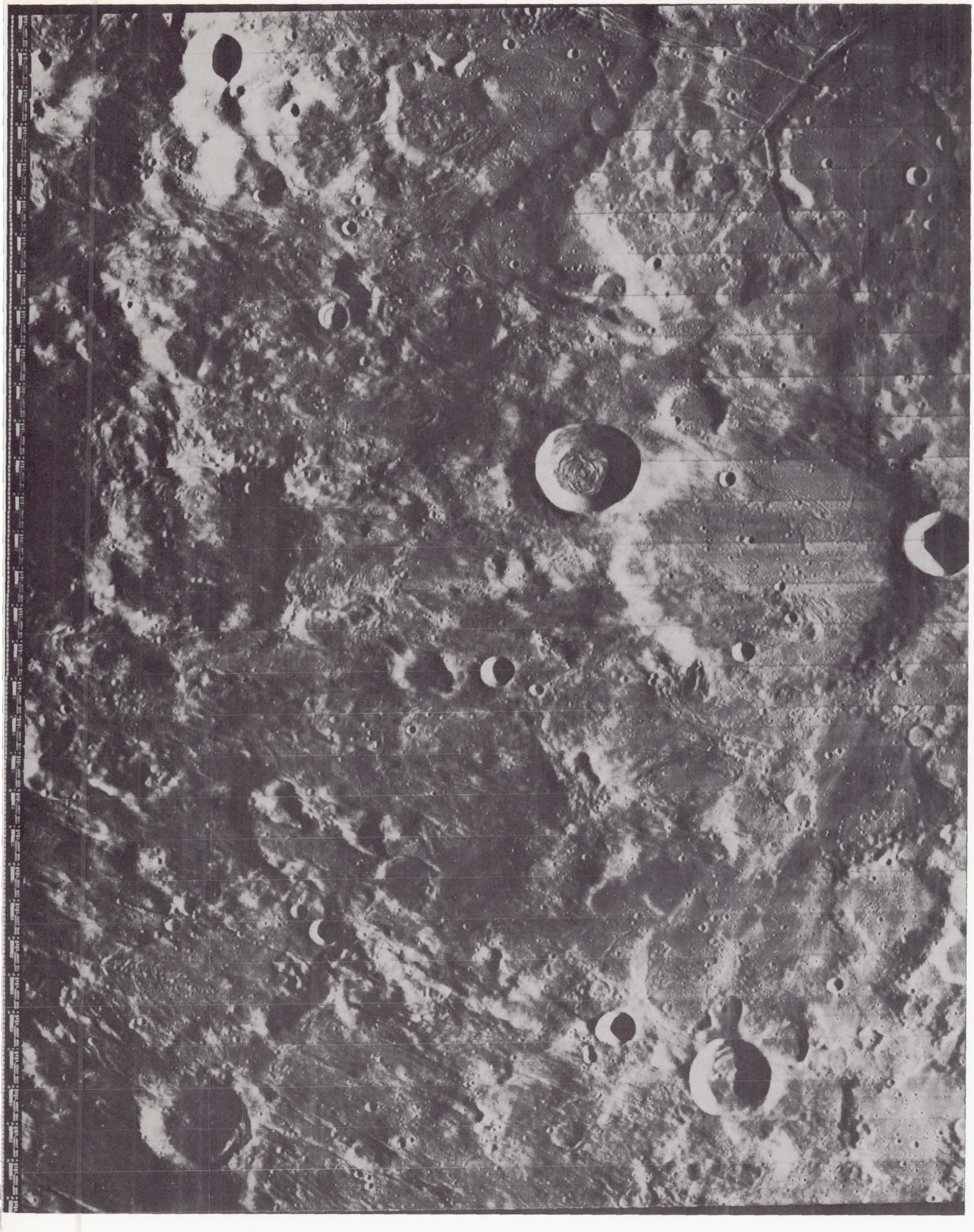
N

PHOTO NO. IV-168-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG—68.18 |
| | LAT. —14.45 |
| NORTH DEVIATION (DEG.) ..... | 5.29 |
| SUN ANGLE ..... | 73.5 |
| SPACECRAFT ALTITUDE (KM) ..... | 2722.19 |

PLATE 261

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-168-H1

CENTER COORDINATES ..... LONG. —68.18
LAT. —14.45
NORTH DEVIATION (DEG.) ..... 5.29
SUN ANGLE ..... 73.5
SPACECRAFT ALTITUDE (KM) ..... 2722.19

N

1 CENTIMETER ≈12 KILOMETERS

BYRGIUS ..... C7

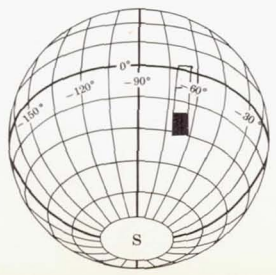
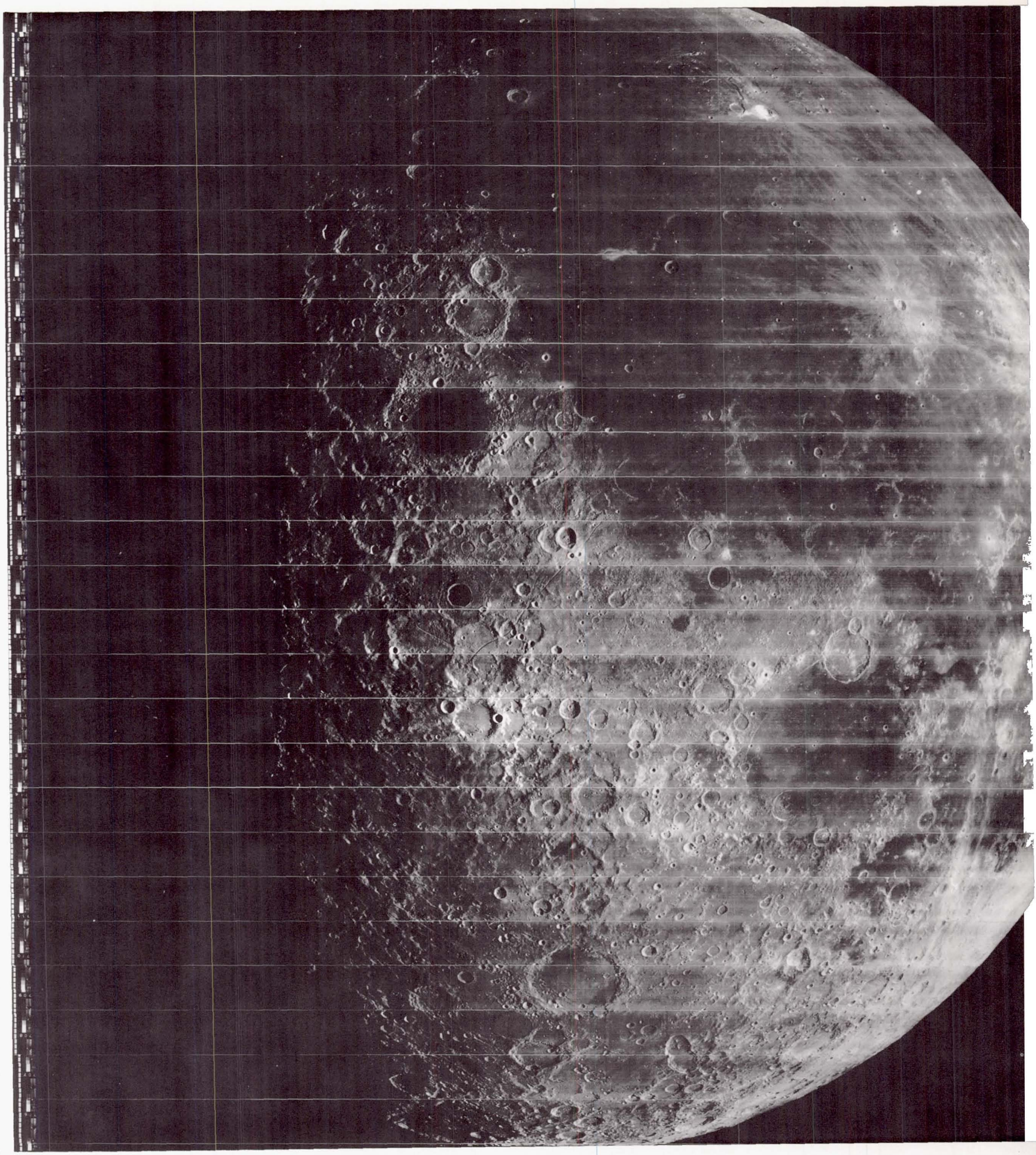
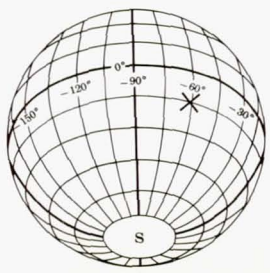



PLATE 262

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... K9
OCEANUS PROCELLARUM ... J3

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-161-M

| | |
|---|---|
| CENTER COORDINATES ..... | LONG—61.98 |
| | LAT. —15.13 |
| NORTH DEVIATION (DEG.) ..... | 5.22 |
| SUN ANGLE ..... | 73.5 |
| SPACECRAFT ALTITUDE (KM) ..... | 2722.66 |

PLATE 263

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

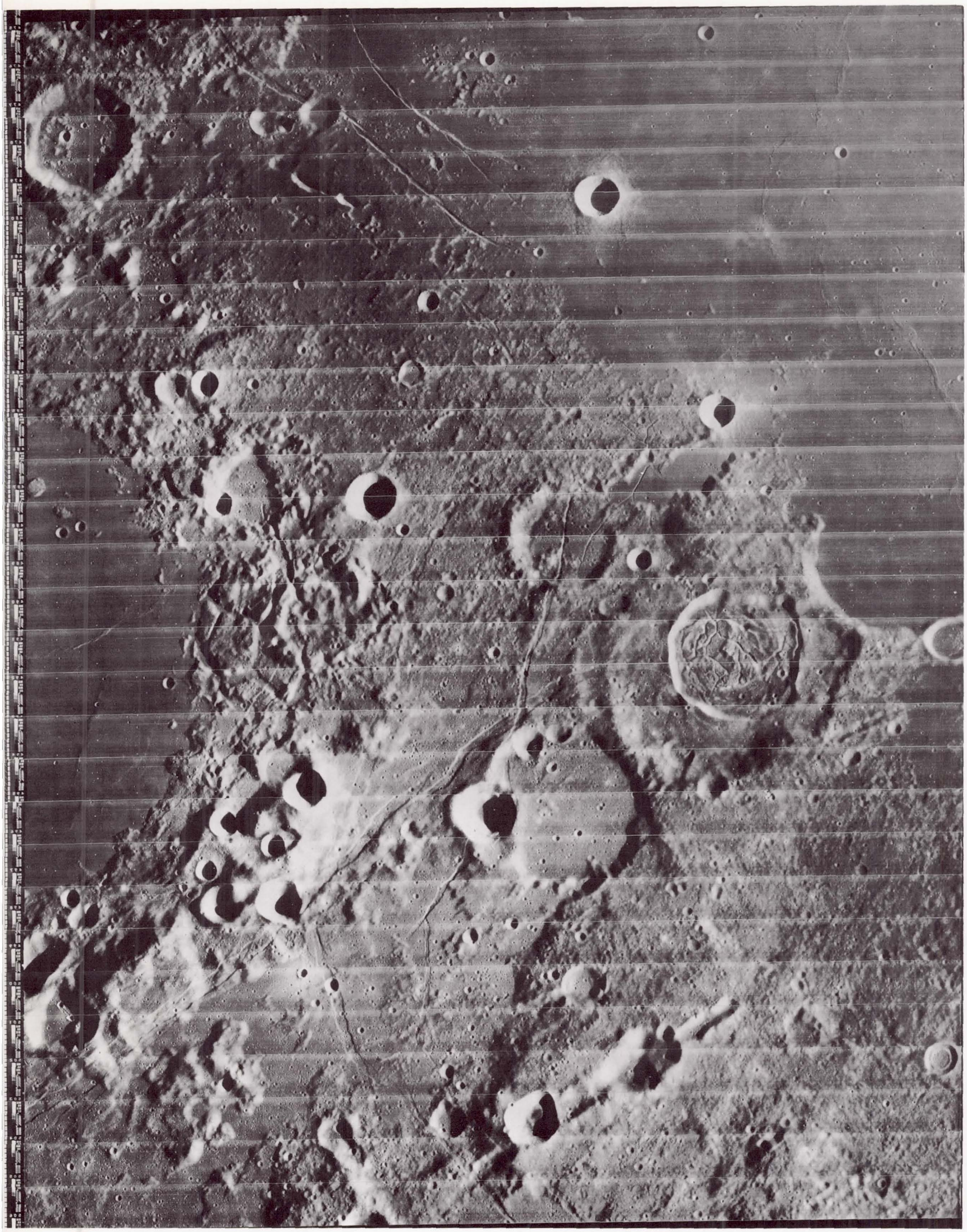


PHOTO NO. IV-161-H3

CENTER COORDINATES ..... LONG. –61.98
LAT. –15.13
NORTH DEVIATION (DEG.) ..... 5.22
SUN ANGLE ..... 73.5
SPACECRAFT ALTITUDE (KM) ..... 2722.67

N

1 CENTIMETER ≈ 11 KILOMETERS

DAMOISEAU ..... C9
*GRIMALDI* ..... L8
LOHRMANN ..... M2
OCEANUS PROCELLARUM .... C3

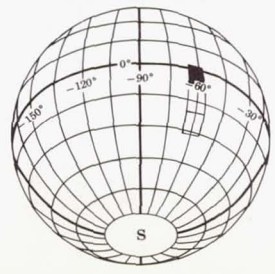
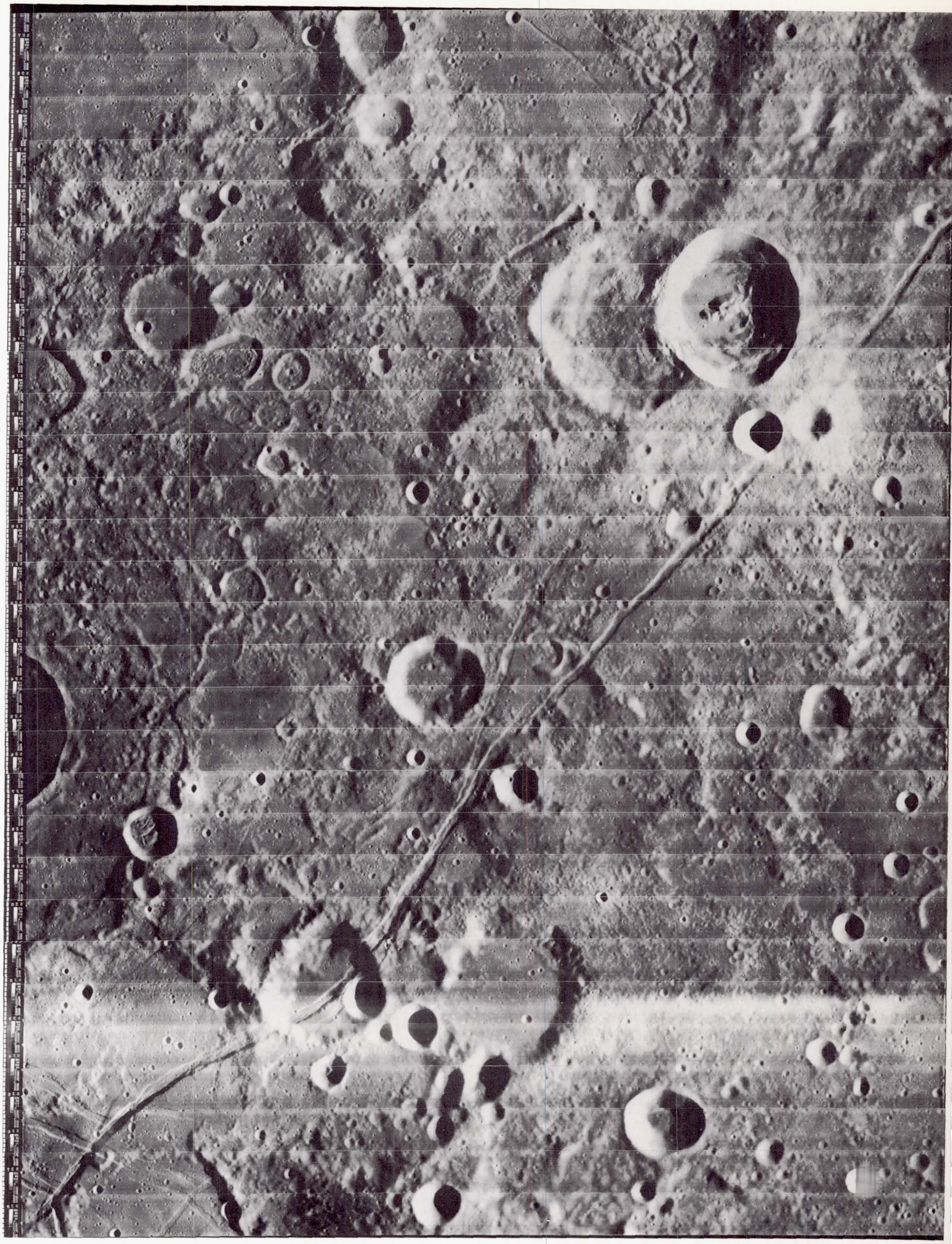
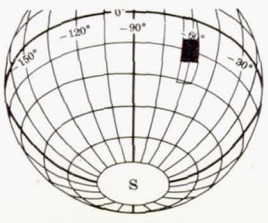



PLATE 264

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CRUGER ... A10
DE VICO.... J15
SIRSALIS ... K4

1 CENTIMETER≈11 KILOMETERS

N

PHOTO NO. IV-161-H2

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | —61.98 |
| | LAT. | —15.13 |
| NORTH DEVIATION (DEG.) ..... | | 5.22 |
| SUN ANGLE ..... | | 73.5 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2722.67 |

PLATE 265

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

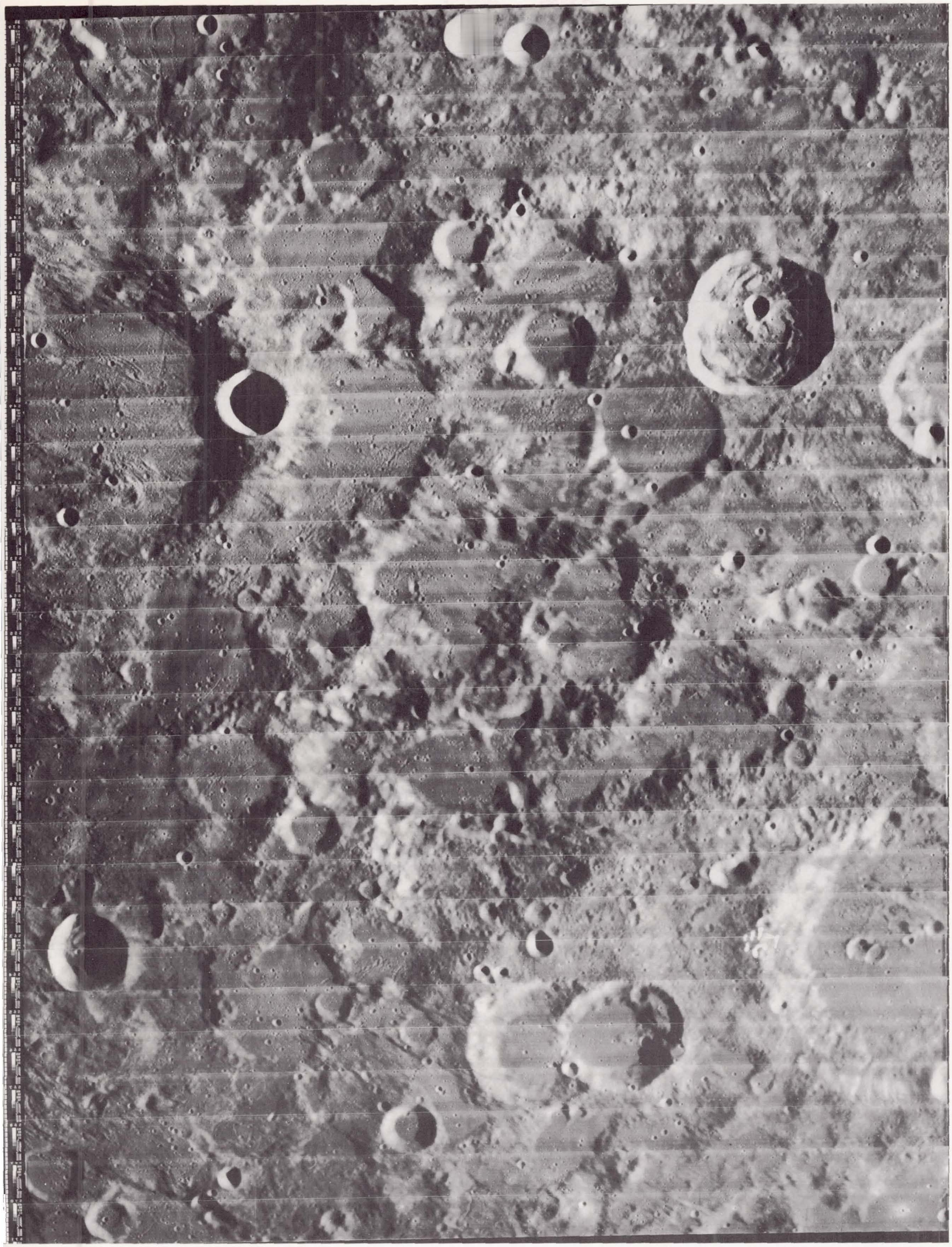


PHOTO NO. IV-161-H1

CENTER COORDINATES ..... LONG —61.98
LAT. —15.13
NORTH DEVIATION (DEG.) ..... 5.22
SUN ANGLE ..... 73.5
SPACECRAFT ALTITUDE (KM) ..... 2722.67

N

1 CENTIMETER ≈ 11 KILOMETERS

BYRGIUS ..... L5
PAUL HENRY ..... A5
PROSPER HENRY .... C4
VIETA ..... B12

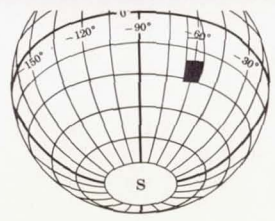
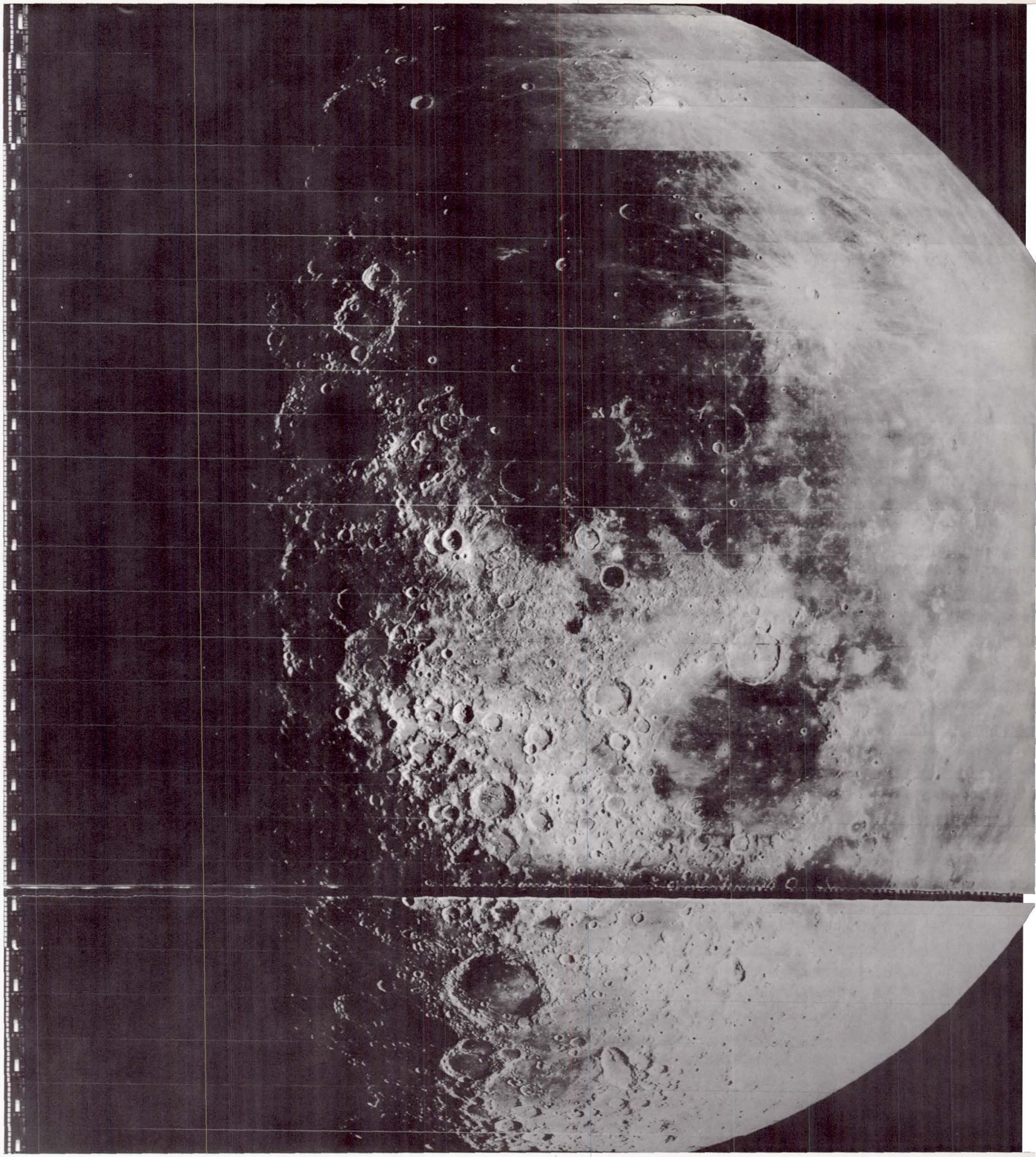
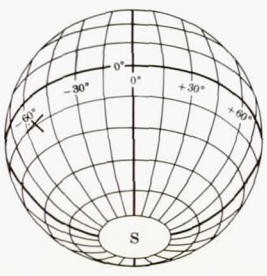



PLATE 266

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... J9
OCEANUS PROCELLARUM .... H3

1 CENTIMETER ≈ 86 KILOMETERS

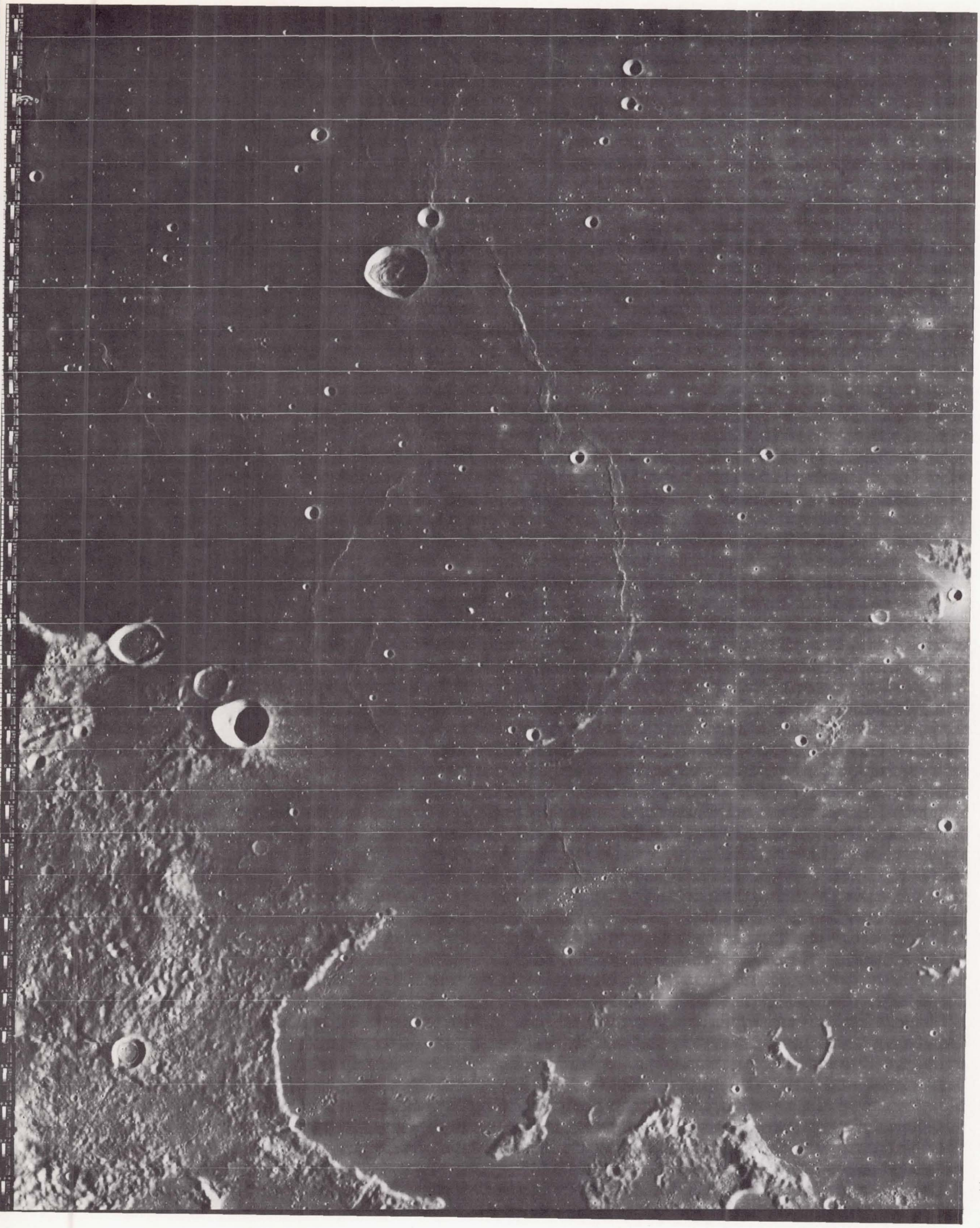
N

PHOTO NO. IV-156-M

CENTER COORDINATES ..... LONG. —55.8
LAT. —14.8
NORTH DEVIATION (DEG.) ..... 5.4
SUN ANGLE ..... 73.
SPACECRAFT ALTITUDE (KM) ..... 2721.5

PLATE 267

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-156-H3

CENTER COORDINATES ..... LONG.—55.80
LAT. —14.88
NORTH DEVIATION (DEG.) ..... 5.48
SUN ANGLE ..... 73.4
SPACECRAFT ALTITUDE (KM) ..... 2721.58

N

1 CENTIMETER ≈ 11 KILOMETERS

DAMOISEAU .... M9
HERMANN ..... G4

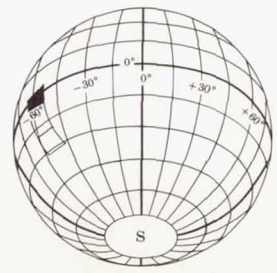
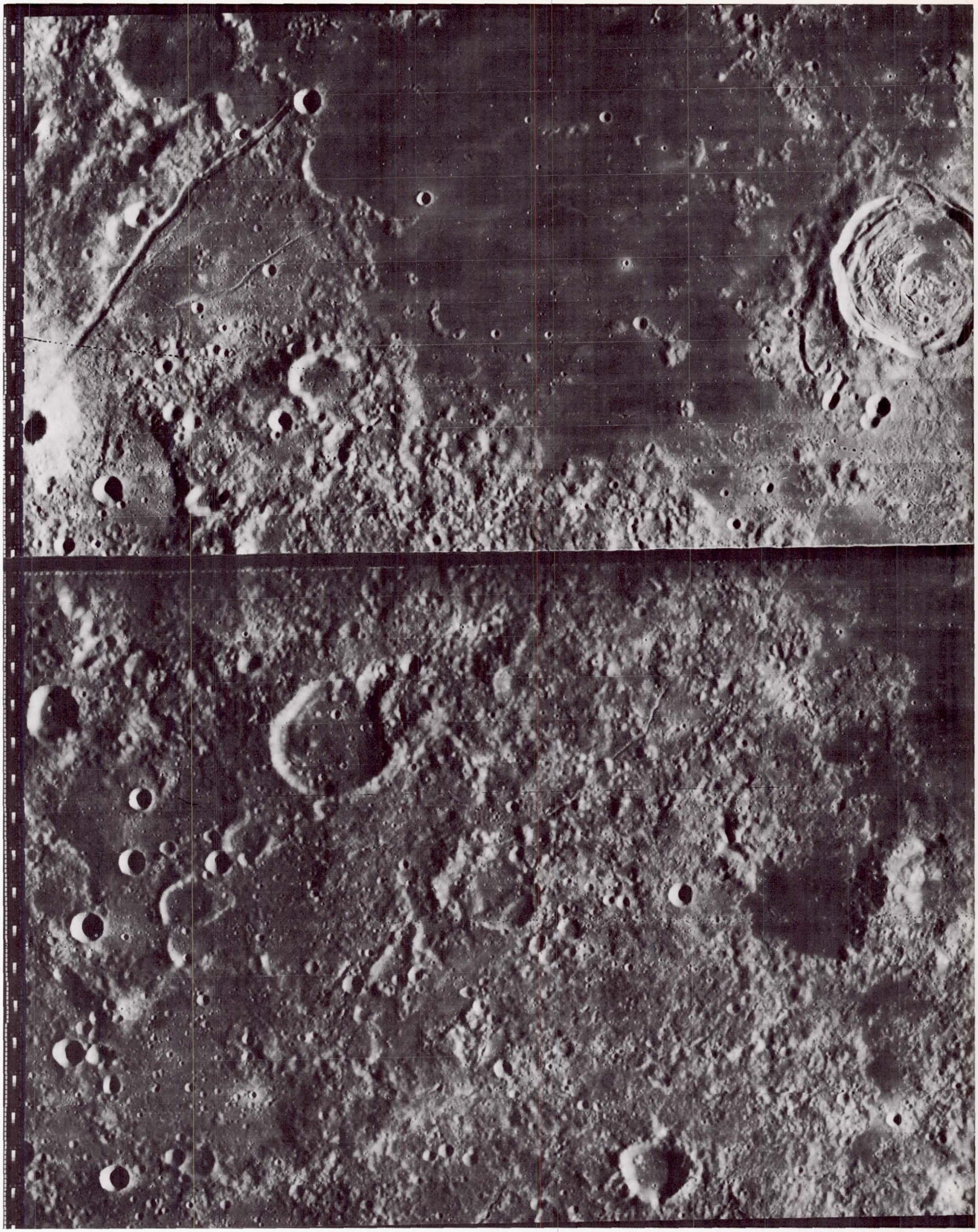
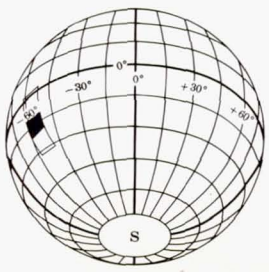



PLATE 268

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HANSTEEN ..... M4

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-156-H2

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | −55.80 |
| LAT. | −14.88 |
| NORTH DEVIATION (DEG.) ..... | 5.48 |
| SUN ANGLE ..... | 73.4 |
| SPACECRAFT ALTITUDE (KM) ..... | 2721.58 |

PLATE 269

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-156-H1

CENTER COORDINATES ..... LONG.—55.80
LAT. —14.87
NORTH DEVIATION (DEG.) ..... 5.48
SUN ANGLE ..... 73.4
SPACECRAFT ALTITUDE (KM) ..... 2721.57

N

1 CENTIMETER ≈ 11 KILOMETERS

CAVENDISH ..... F6
DE GASPARIS ..... B8
FOURIER ..... F14
PAUL HENRY ..... K5
PROSPER HENRY .... M4
VIETA ..... K12

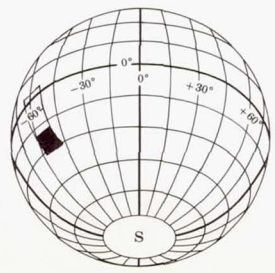
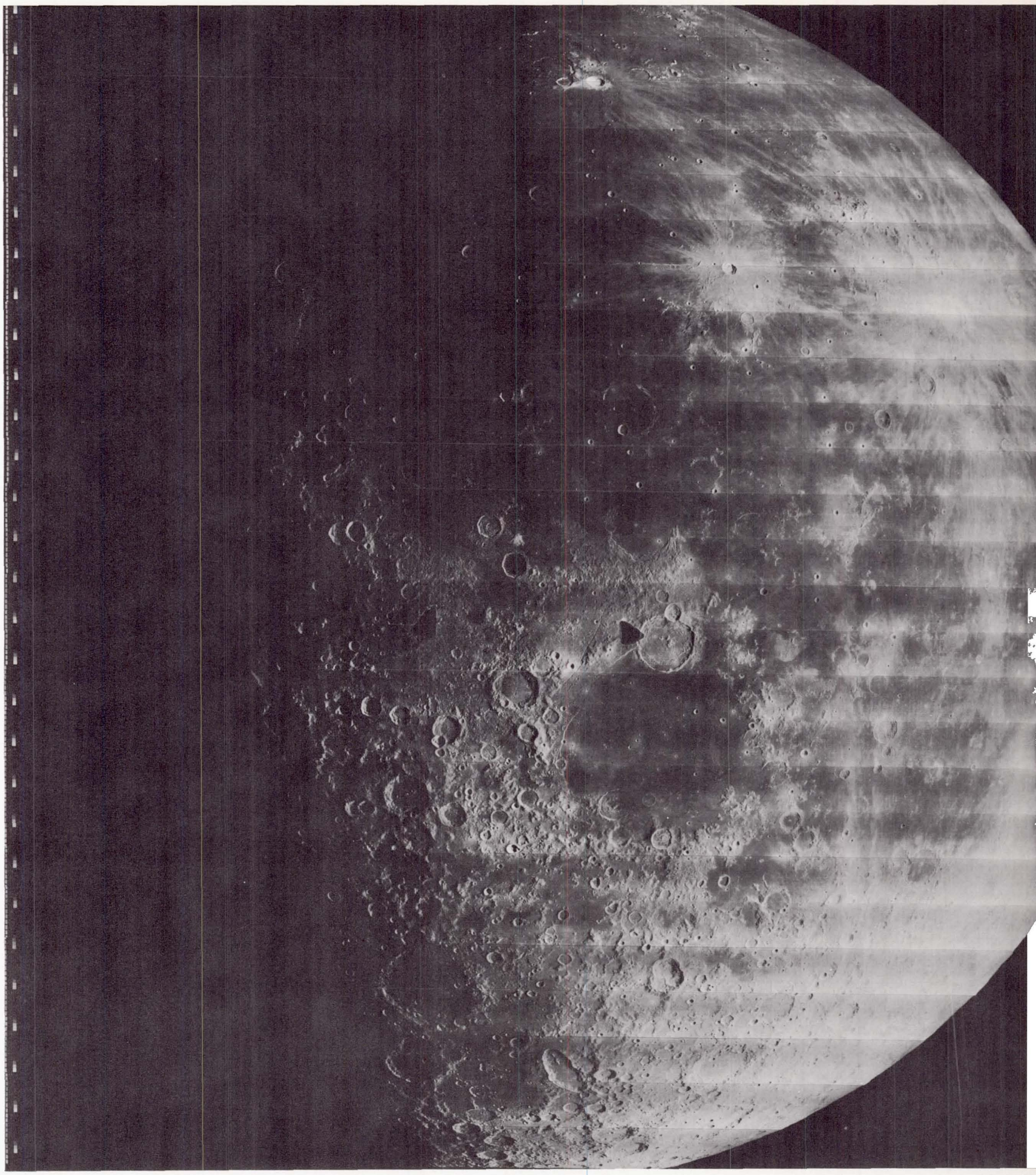
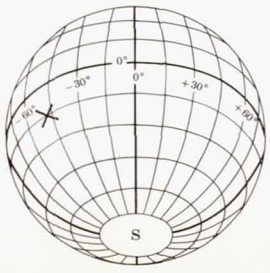



PLATE 270

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... H9
MARE NUBIUM ..... L10
OCEANUS PROCELLARUM ..... G2

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-149-M

CENTER COORDINATES ..... LONG. —48.76
LAT. —15.05
NORTH DEVIATION (DEG.) ..... 5.41
SUN ANGLE ..... 72.5
SPACECRAFT ALTITUDE (KM) ..... 2720.26

PLATE 271

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

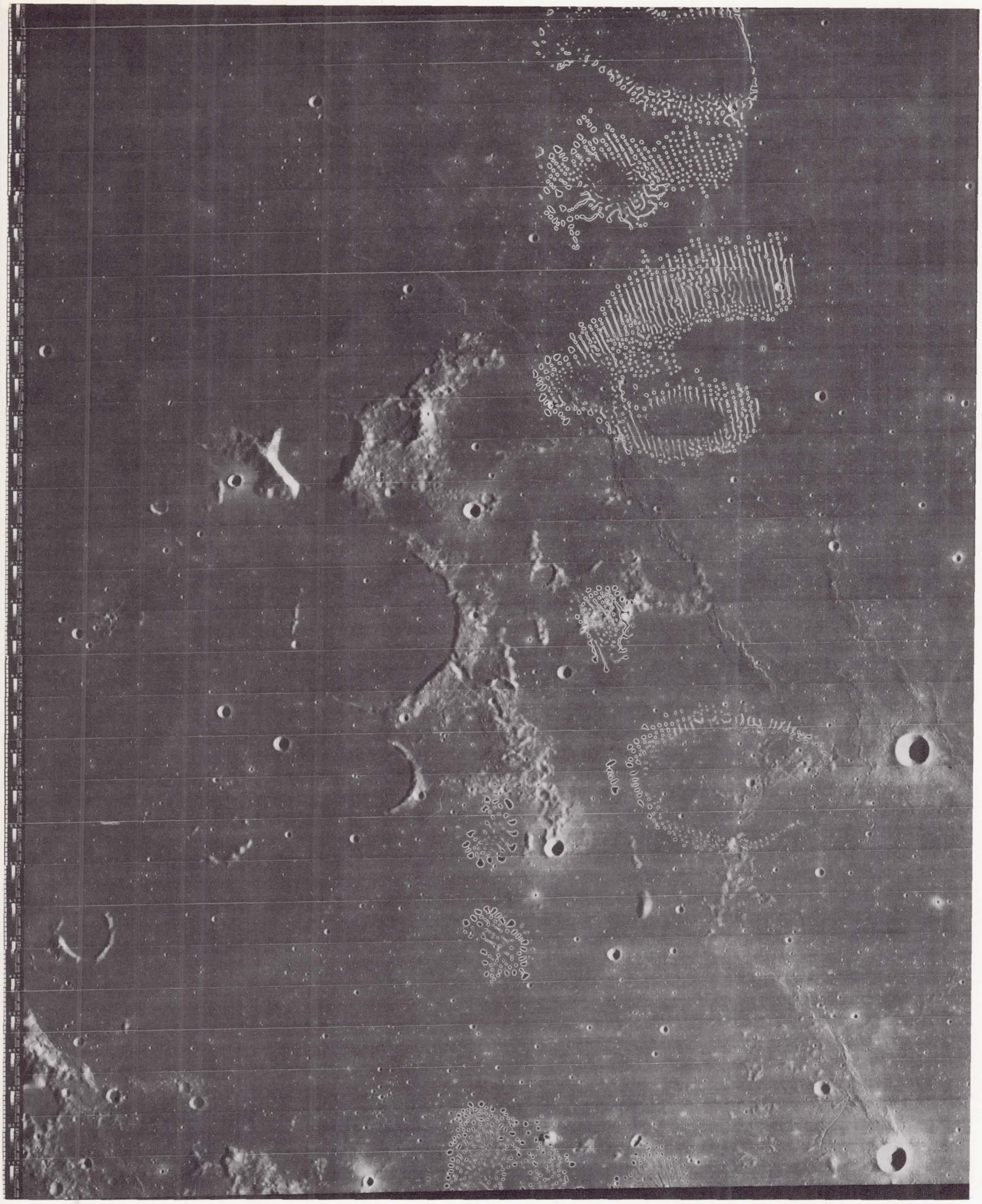


PHOTO NO. IV-149-H3

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | —48.76 |
| | LAT. | —15.05 |
| NORTH DEVIATION (DEG.) ..... | | 5.41 |
| SUN ANGLE ..... | | 72.5 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2720.28 |

N

1 CENTIMETER ≈ 11 KILOMETERS

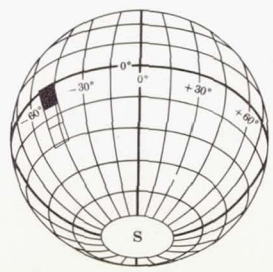
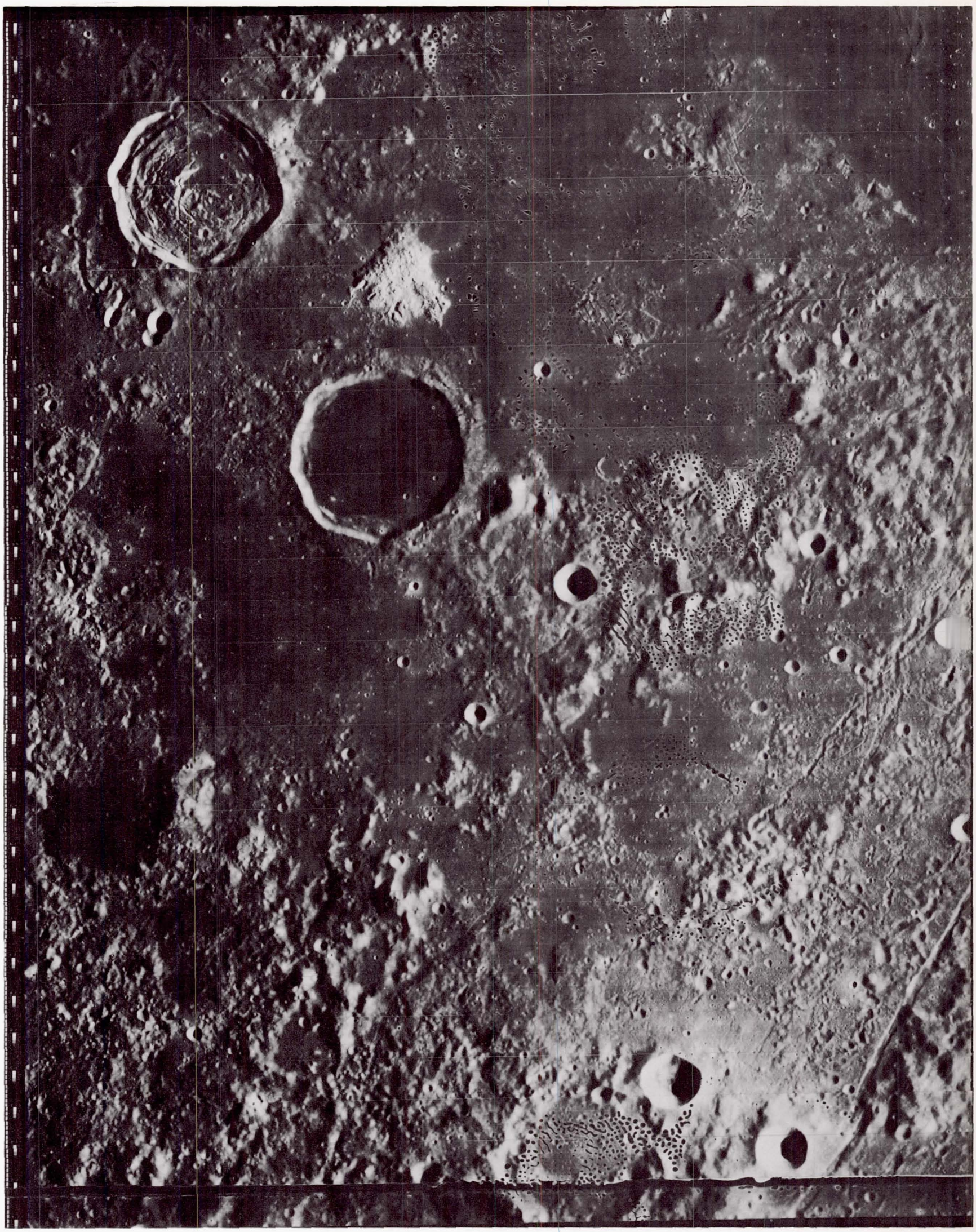
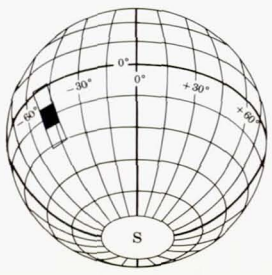



PLATE 272

A • B • C • D • E • F • G H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BILLY ..... E6
HANSTEEN ..... C3

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-149-H2

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | —48.76 |
| | LAT. | —15.05 |
| NORTH DEVIATION (DEG.) ..... | | 5.41 |
| SUN ANGLE ..... | | 72.5 |
| SPACECRAFT ALTITUDE (KM) ..... | | 2720.28 |

PLATE 273

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-149-H1

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | —48.76 |
| | LAT. | —15.05 |
| NORTH DEVIATION (DEG.) | | 5.41 |
| SUN ANGLE | | 72.5 |
| SPACECRAFT ALTITUDE (KM) | | 2720.28 |

N

1 CENTIMETER ≈ 11 KILOMETERS

| | |
|---|---|
| DE GASPARIS | K7 |
| LIEBIG | G5 |
| MERSENIUS | H2 |
| PALMIERI | G11 |

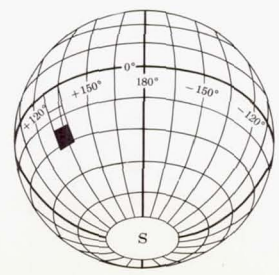
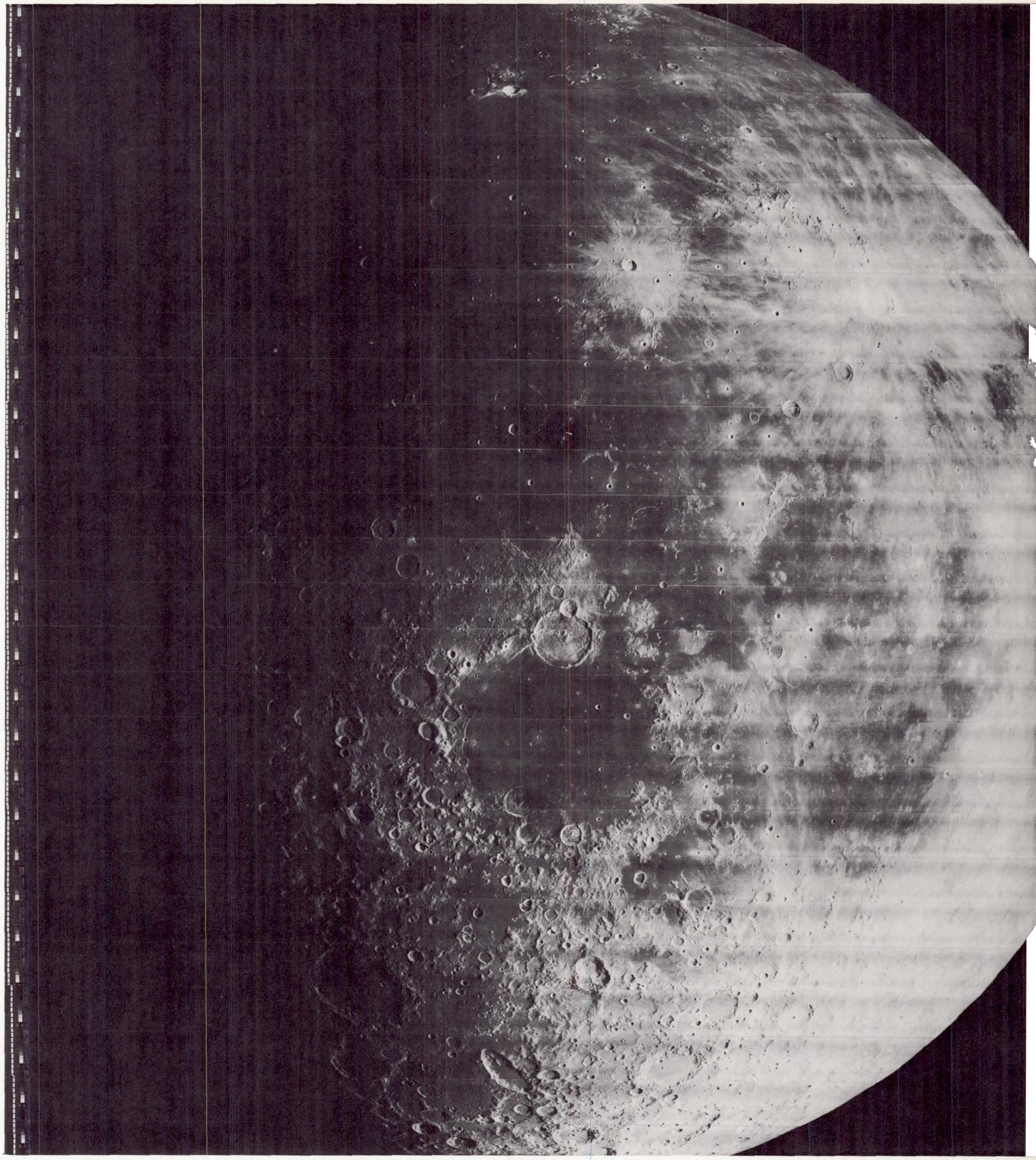
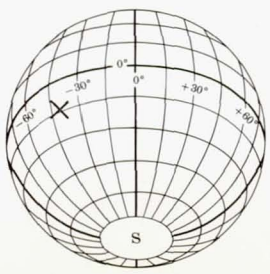



PLATE 274

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE HUMORUM | G9 |
| MARE IMBRIUM | K2 |
| MARE NUBIUM | L9 |
| OCEANUS PROCELLARUM | F2 |
| SINUS AESTUUM | M5 |

1 CENTIMETER ≈ 86 KILOMETERS

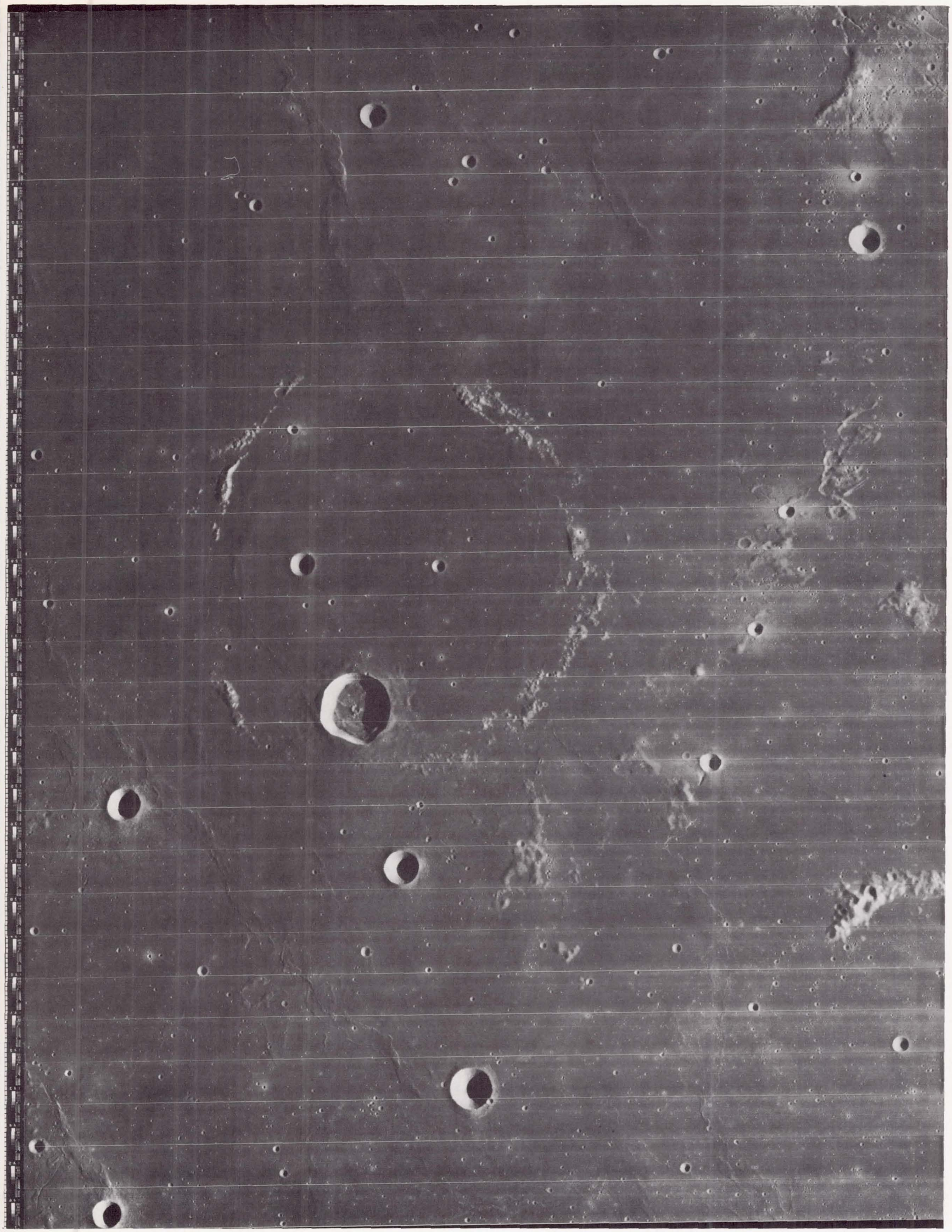
N

PHOTO NO. IV-143-M

| | |
|---|---|
| CENTER COORDINATES | LONG. −41.41 |
| | LAT. −14.29 |
| NORTH DEVIATION (DEG.) | 5.76 |
| SUN ANGLE | 71.2 |
| SPACECRAFT ALTITUDE (KM) | 2719.09 |

PLATE 275

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-143-H3

CENTER COORDINATES ..... LONG. −41.41
LAT. −14.30
NORTH DEVIATION (DEG.) ..... 5.76
SUN ANGLE ..... 71.2
SPACECRAFT ALTITUDE (KM) ..... 2719.10

N

1 CENTIMETER ≈ 11 KILOMETERS

FIAMSTEED ..... H9

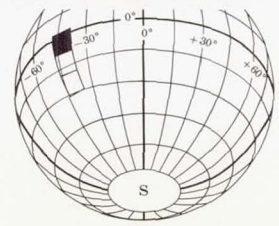
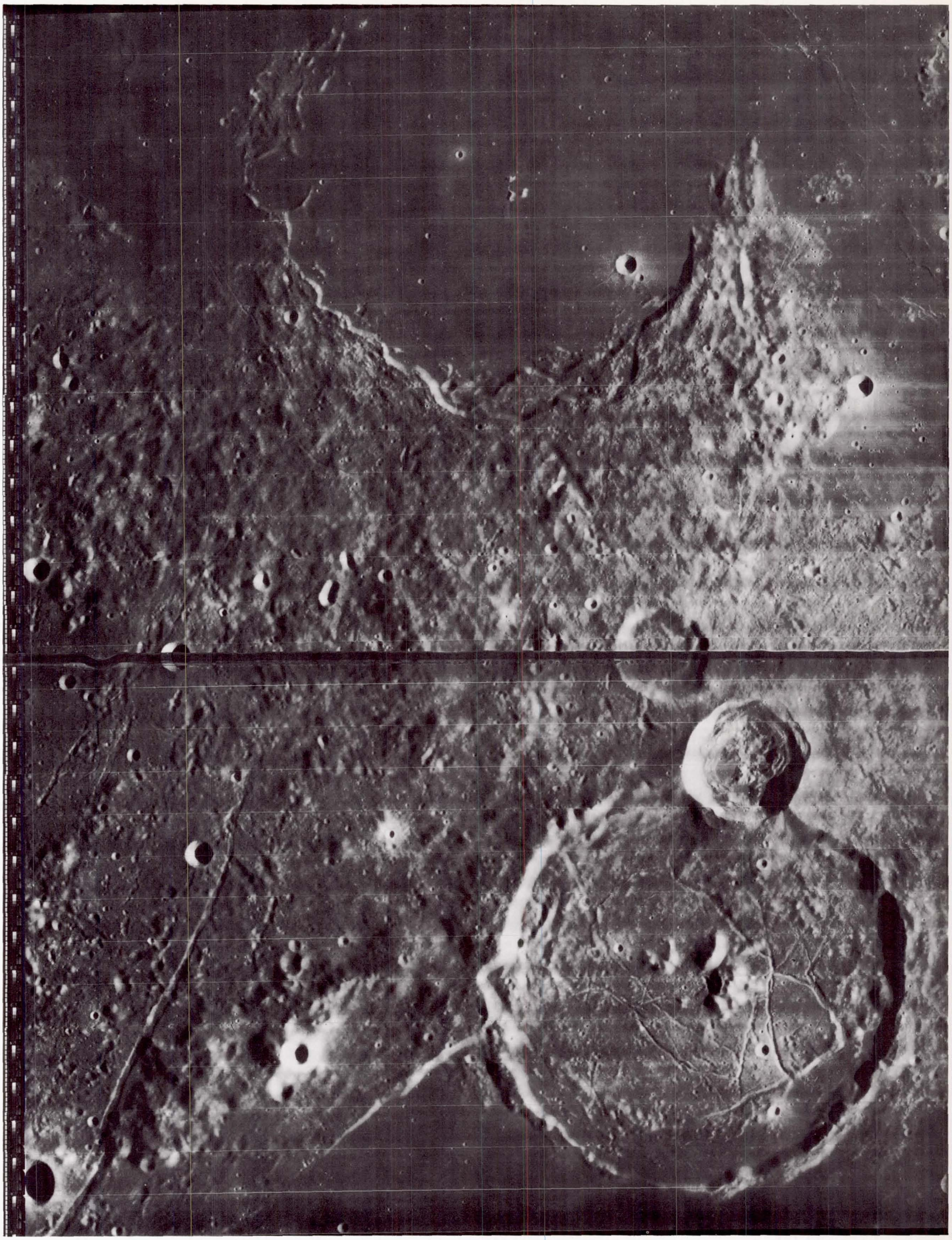
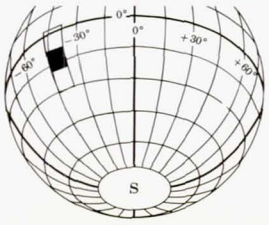



PLATE 276

A • B • C • D • E • F • G • H • J • K • L • M






GASSENDI ..... J13
LETRONNE ..... E2

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-143-H2

CENTER COORDINATES ..... LONG. –41.41
LAT. –14.30
NORTH DEVIATION (DEG.) ..... 5.76
SUN ANGLE ..... 71.2
SPACECRAFT ALTITUDE (KM) ..... 2719.10

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

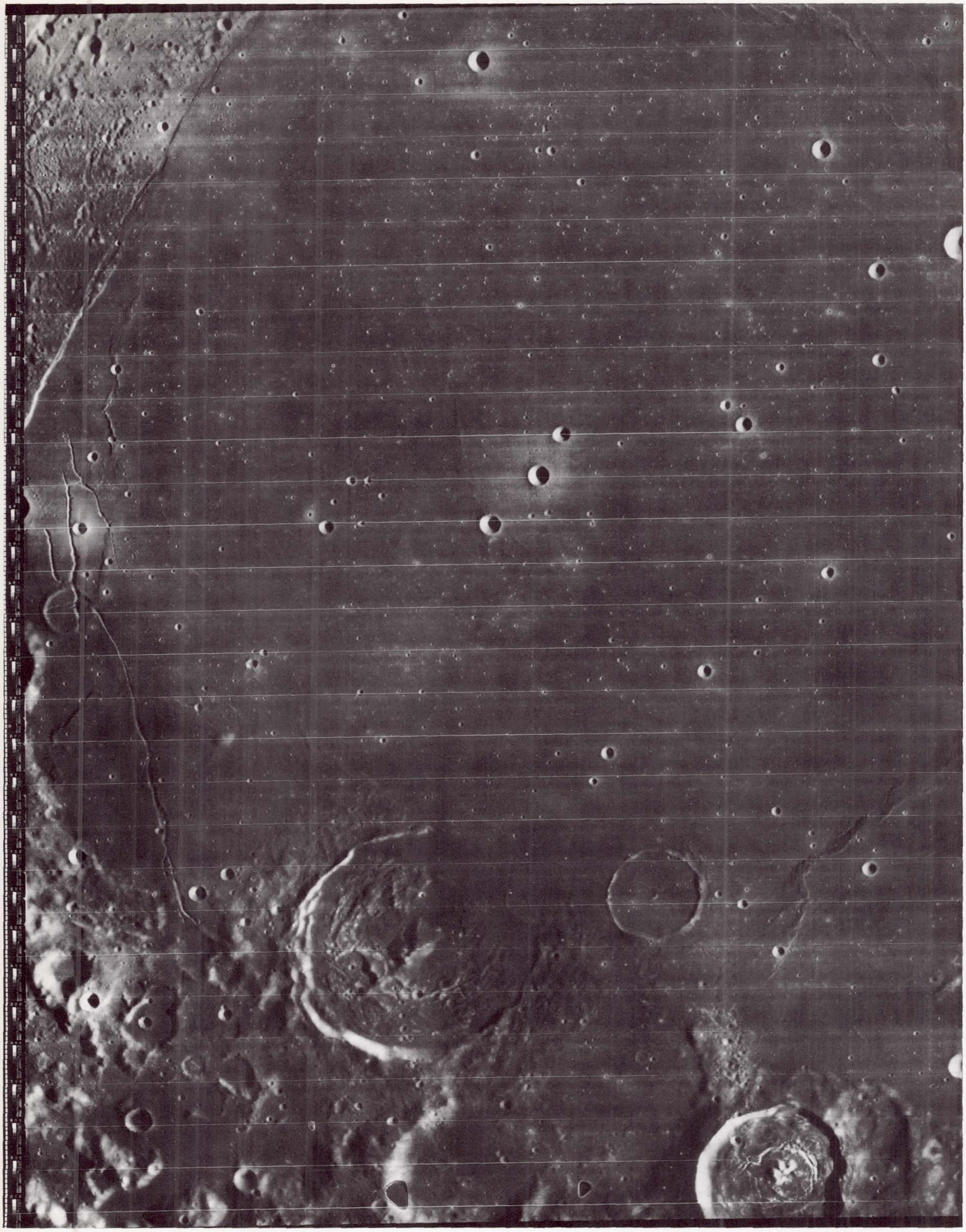


PHOTO NO IV-143-H1

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −41.41 |
| | LAT. −14.30 |
| NORTH DEVIATION (DEG.) ..... | 5.76 |
| SUN ANGLE ..... | 71.2 |
| SPACECRAFT ALTITUDE (KM) ..... | 2719.10 |

N

1 CENTIMETER ≈11 KILOMETERS

| | |
|---|---|
| DOPPELMAYER ..... | G12 |
| LEE ..... | G15 |
| MARE HUMORUM .... | G4 |
| PUISEUX ..... | D12 |
| VITELLO ..... | C15 |

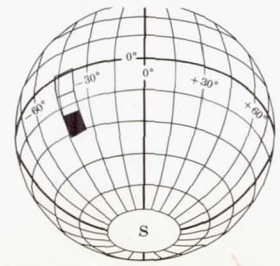
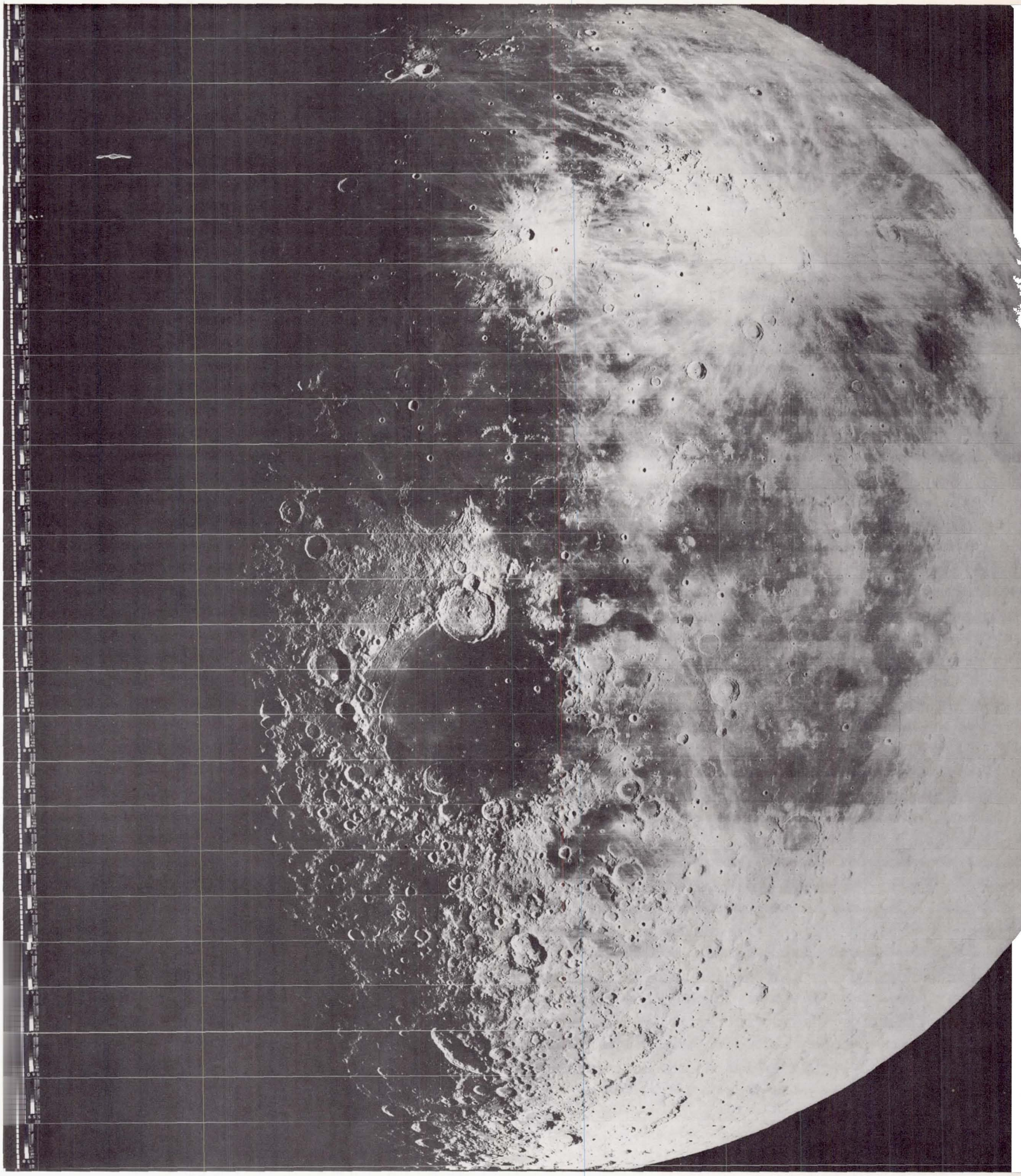
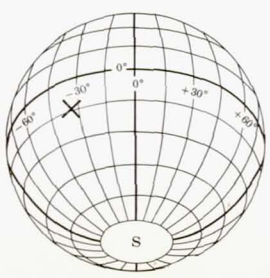



PLATE 278

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... F9
MARE IMBRIUM ..... K1
MARE NUBIUM ..... K9
OCEANUS PROCELLARUM ..... E2

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-137-M

CENTER COORDINATES ..... LONG. −35.28
LAT. −14.97
NORTH DEVIATION (DEG.) ..... 5.77
SUN ANGLE ..... 71.2
SPACECRAFT ALTITUDE (KM) ..... 2718.00

PLATE 279

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

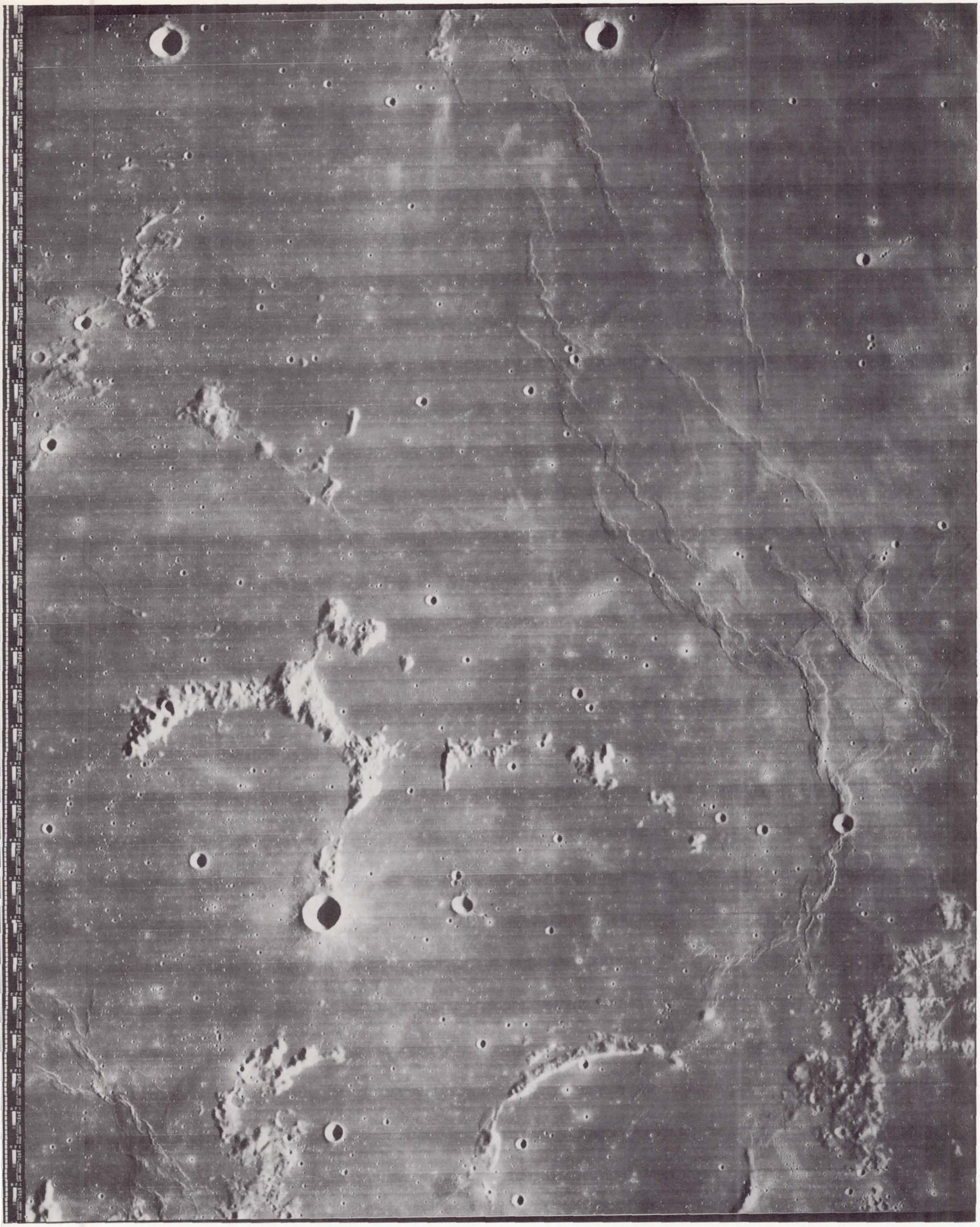


PHOTO NO. IV-137-H3

CENTER COORDINATES ..... LONG. −35.28
LAT. −14.98
NORTH DEVIATION (DEG.) ..... 5.77
SUN ANGLE ..... 71.2
SPACECRAFT ALTITUDE (KM) ..... 2718.01

N

1 CENTIMETER ≈ 11 KILOMETERS

WICHMANN .... H12

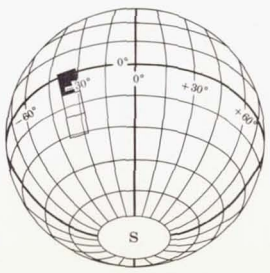
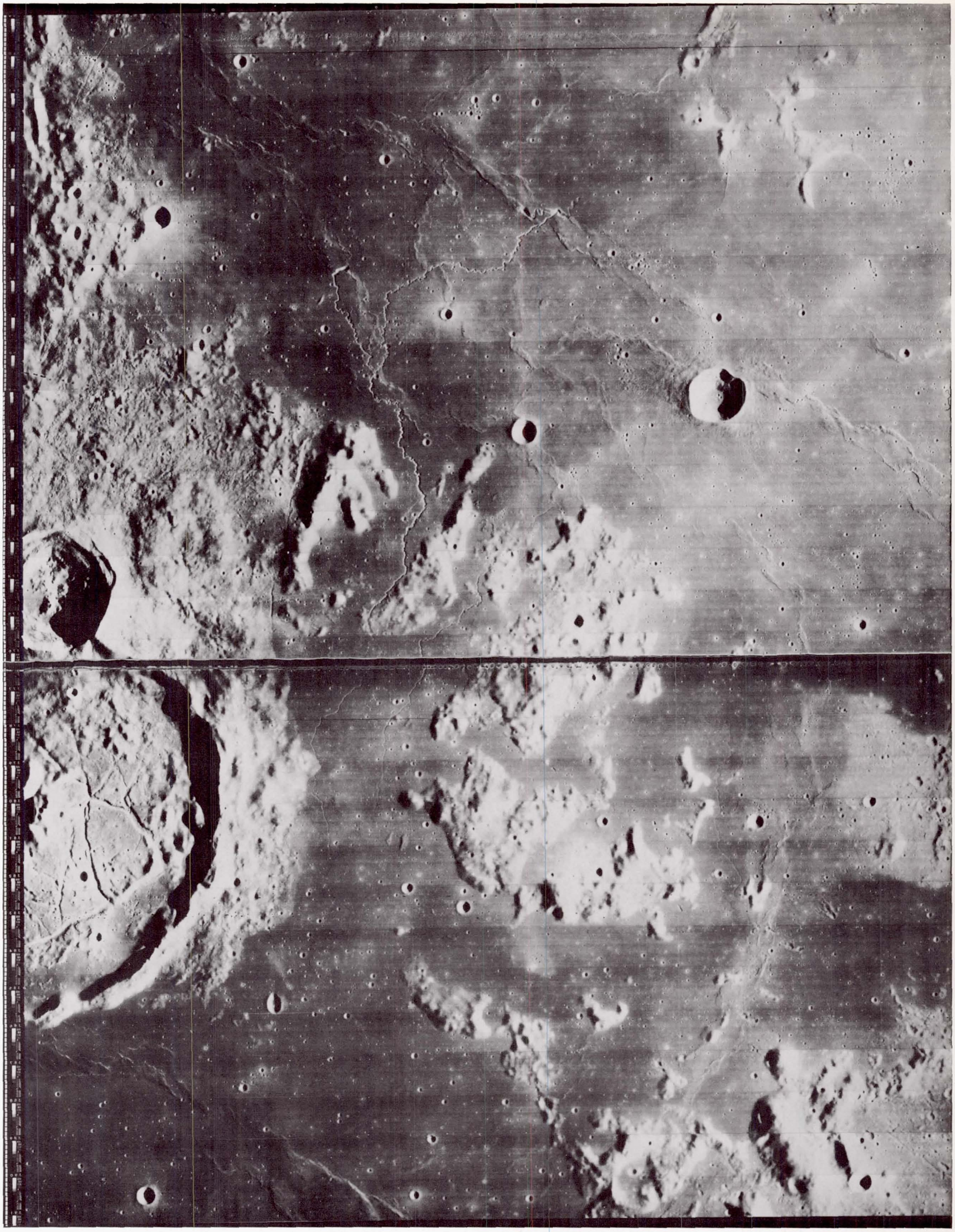
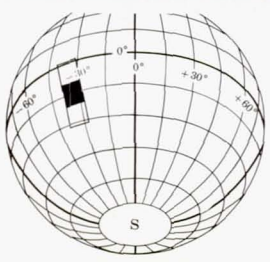



PLATE 280

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






GASSENDI ..... A10
HERIGONIUS .... J5

1 CENTIMETER ≈ 11 KILOMETERS

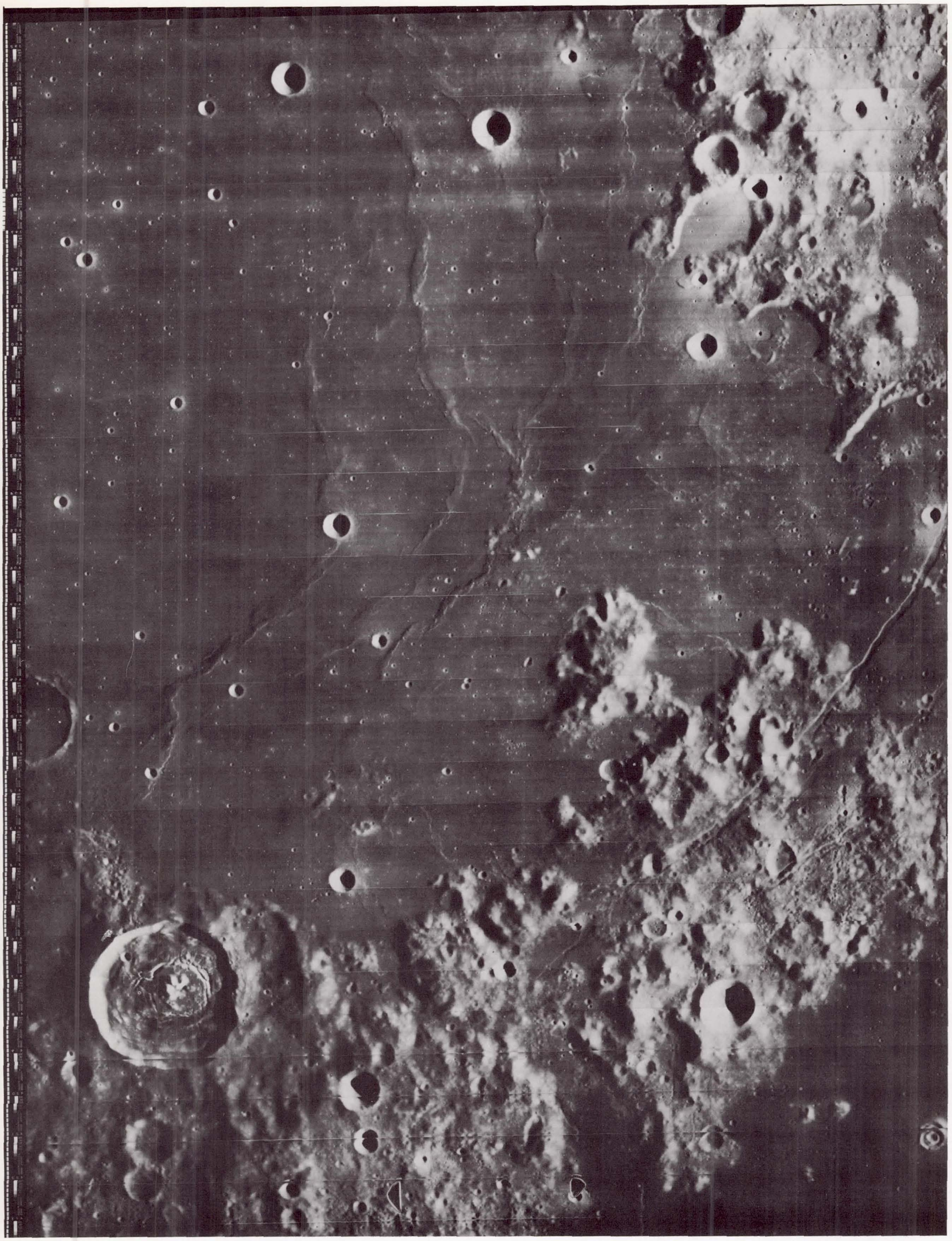
N

PHOTO NO. IV-137-H2

CENTER COORDINATES ..... LONG. −35.28
LAT. −14.98
NORTH DEVIATION (DEG.) ..... 5.77
SUN ANGLE ..... 71.2
SPACECRAFT ALTITUDE (KM) ..... 2718.01

PLATE 281

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-137-H1

CENTER COORDINATES ..... LONG. −35.28
LAT. −14.98
NORTH DEVIATION (DEG.) ..... 5.77
SUN ANGLE ..... 71.2
SPACECRAFT ALTITUDE (KM) ..... 2718.01

N

1 CENTIMETER ≈11 KILOMETERS

DUNTHORNE ..... C13
HIPPALUS ..... B7
LOEWY ..... C3
MARE HUMORUM ..... K7
PALUS EPIDEMIARUM .... B14
PUISEUX ..... M9
VITELLO ..... L13

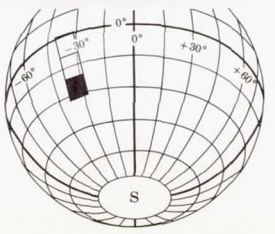
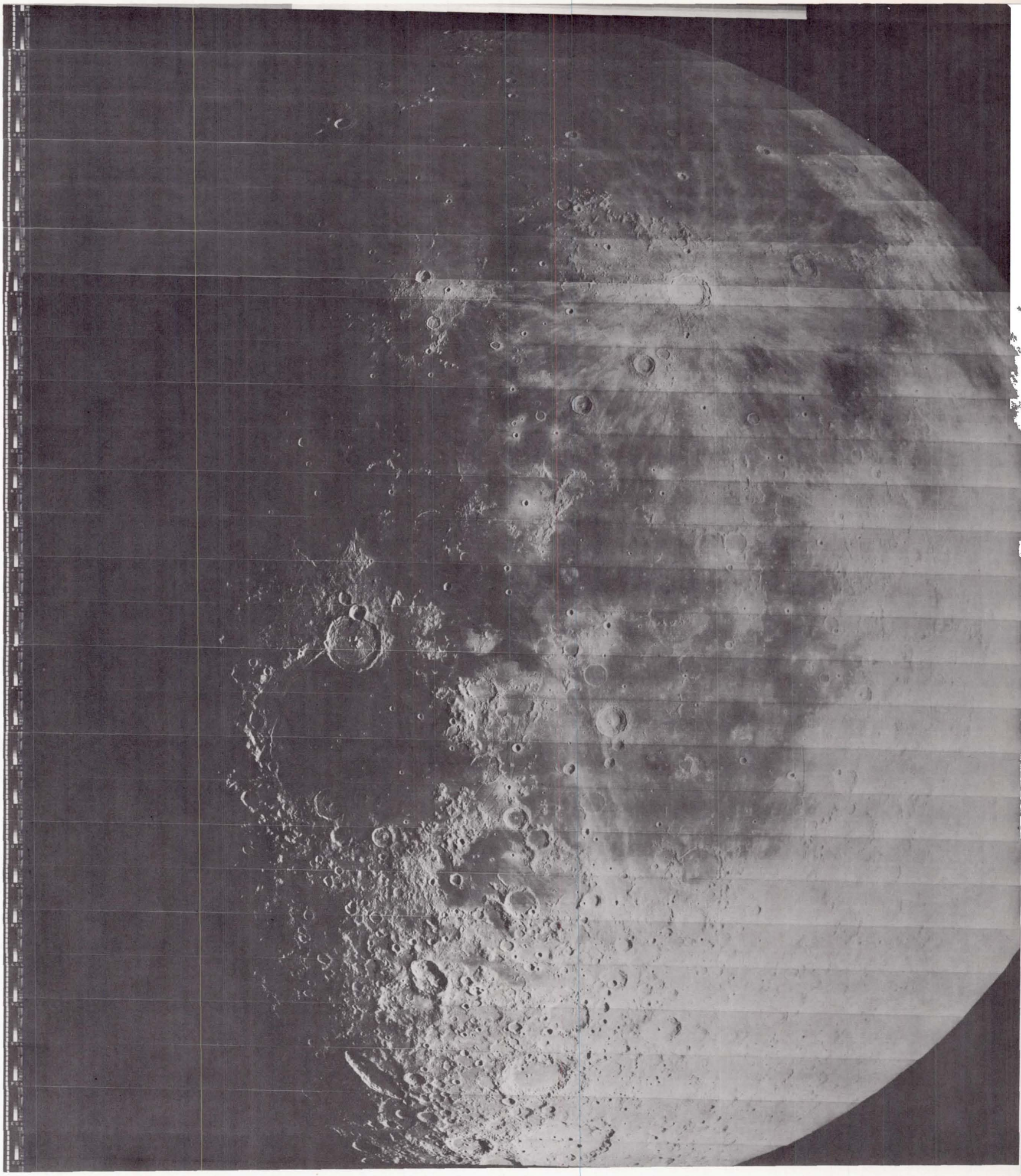
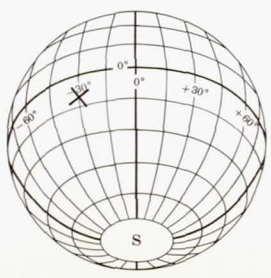



PLATE 282

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE HUMORUM | E9 |
| MARE IMBRIUM | H1 |
| MARE NUBIUM | J9 |
| OCEANUS PROCELLARUM | E4 |
| SINUS AESTUUM | K5 |

1 CENTIMETER ≈ 86 KILOMETERS

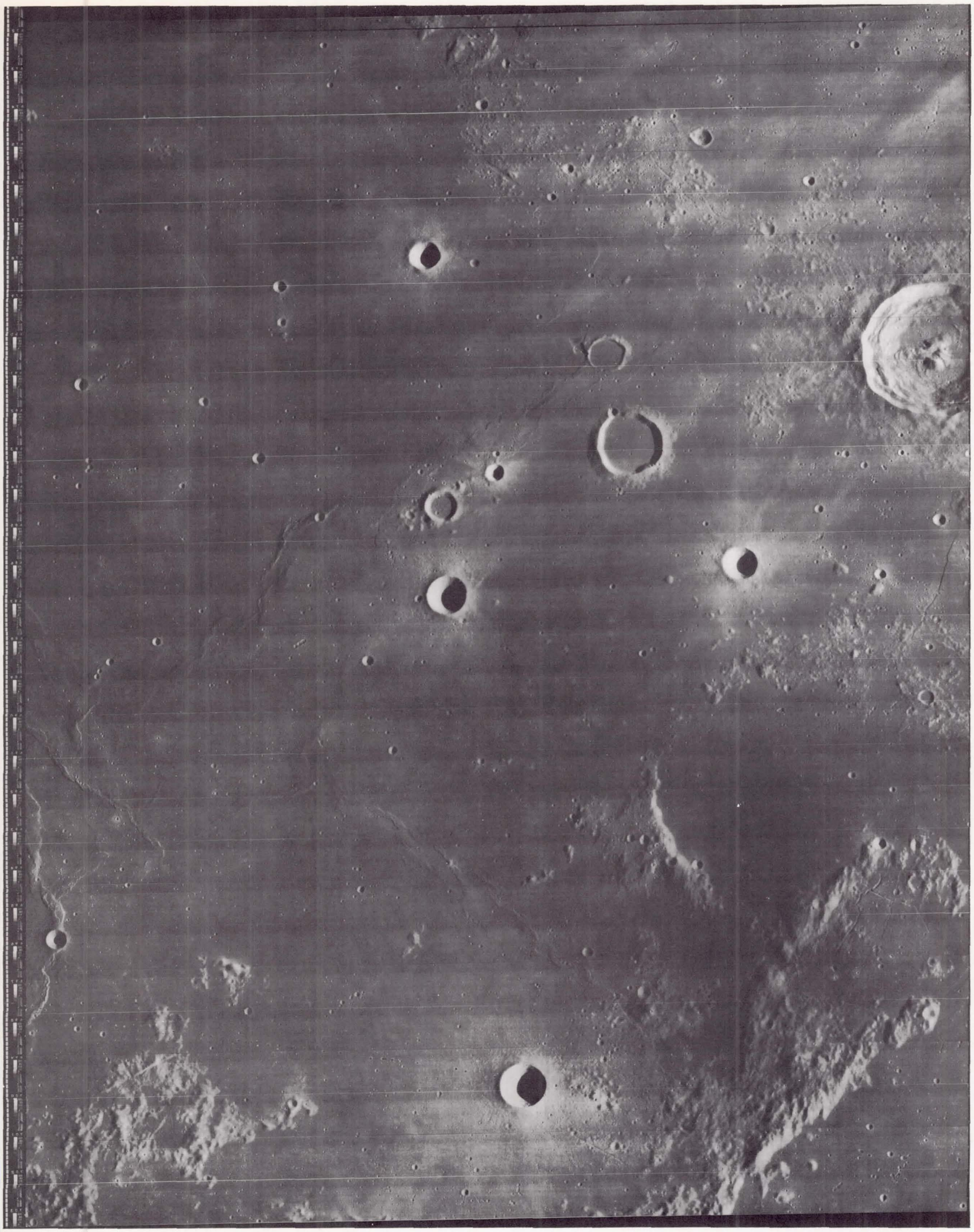
N

PHOTO NO. IV-132-M

| | |
|---|---|
| CENTER COORDINATES | LONG. −29.59 |
| | LAT. −9.14 |
| NORTH DEVIATION (DEG.) | 6.90 |
| SUN ANGLE | 71.1 |
| SPACECRAFT ALTITUDE (KM) | 2717.38 |

PLATE 283

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-132-H3

CENTER COORDINATES ..... LONG. —29.59
LAT. —9.14
NORTH DEVIATION (DEG.) ..... 6.90
SUN ANGLE ..... 71.1
SPACECRAFT ALTITUDE (KM) ..... 2717.39

N

1 CENTIMETER ≈11 KILOMETERS

EUCLIDES ..... F14
LANSBERG ..... A5

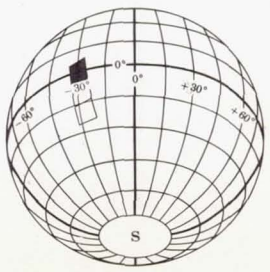
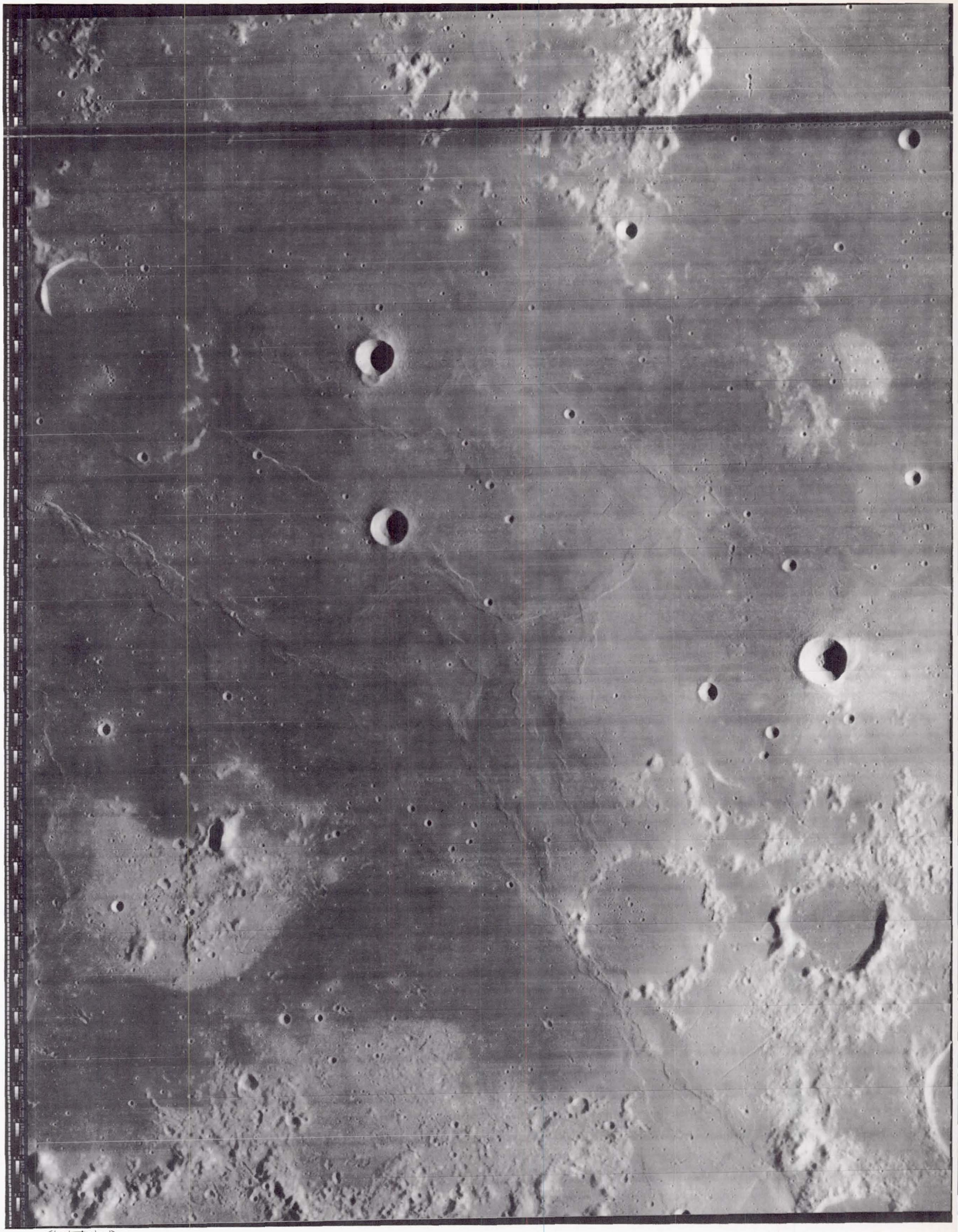
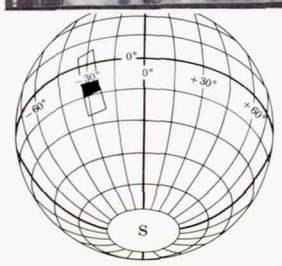



PLATE 284






1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-132-H2

CENTER COORDINATES ..... LONG. —29.59
LAT. —9.14
NORTH DEVIATION (DEG.) ..... 6.90
SUN ANGLE ..... 71.1
SPACECRAFT ALTITUDE (KM) ..... 2717.39

PLATE 285

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

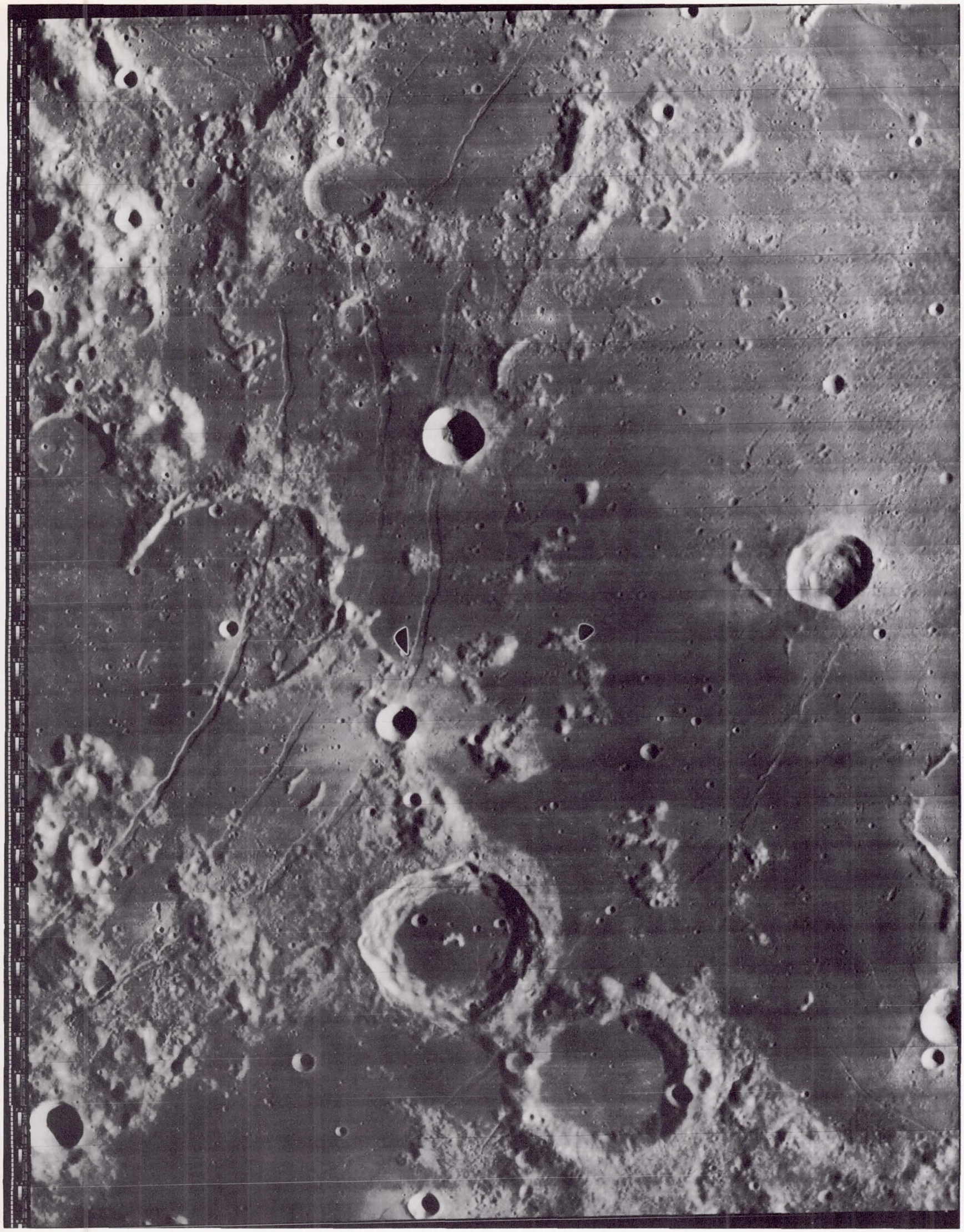


PHOTO NO. IV-132-H1

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | —29.59 |
| | LAT. | —9.14 |
| NORTH DEVIATION (DEG.) | | 6.90 |
| SUN ANGLE | | 71.1 |
| SPACECRAFT ALTITUDE (KM) | | 2717.39 |

N

1 CENTIMETER ≈ 11 KILOMETERS

| | |
|---|---|
| AGATHARCHIDES | K1 |
| CAMPANUS | G12 |
| HIPPALUS | K8 |
| KONIG | B8 |
| MERCATOR | E14 |
| PALUS EPIDEMIARUM | K15 |

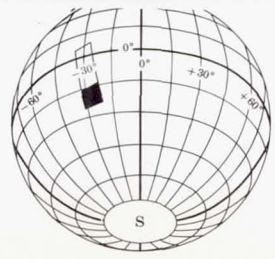
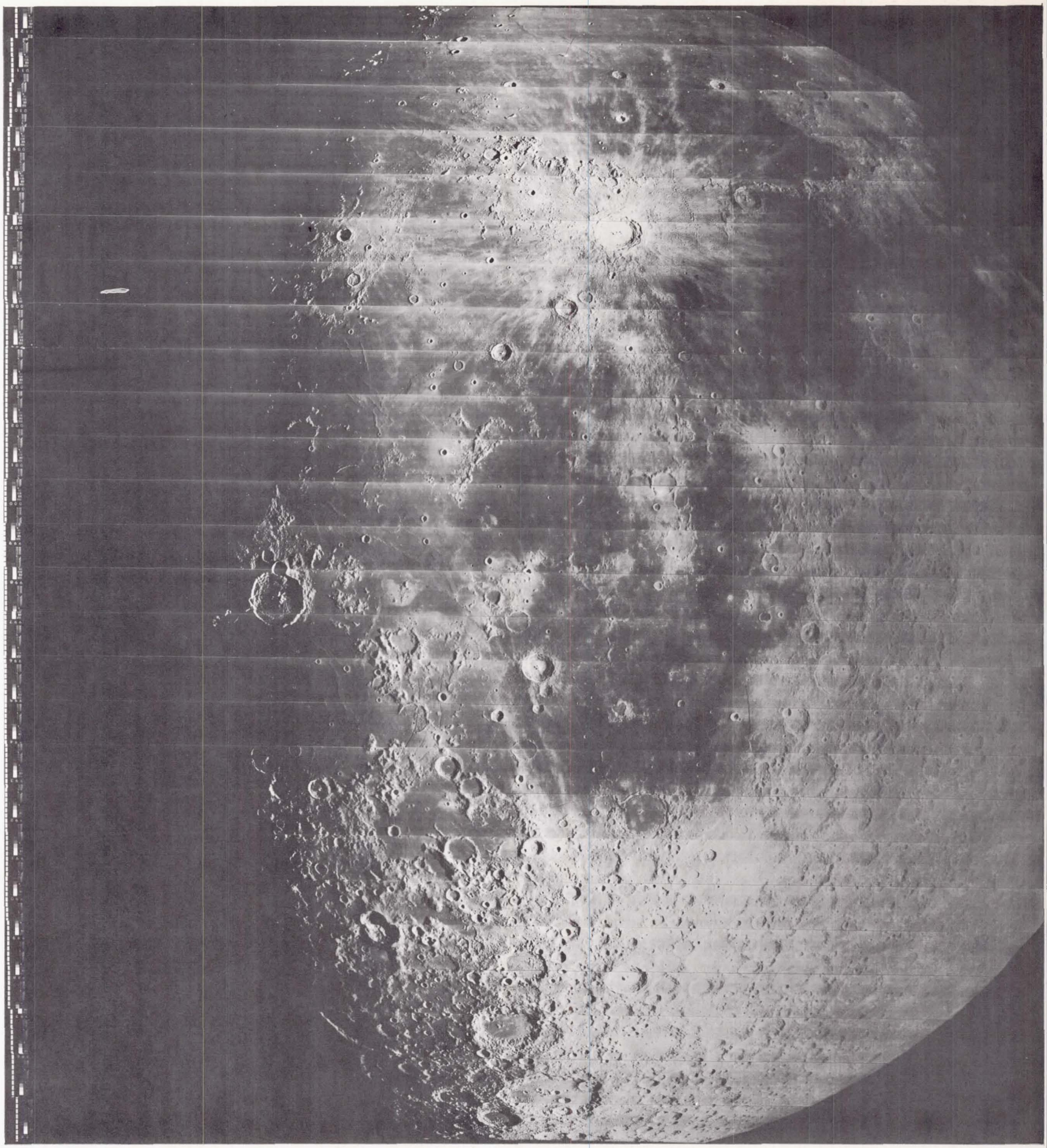
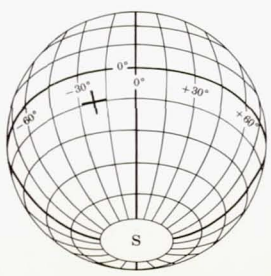



PLATE 286

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE HUMORUM | D9 |
| MARE IMBRIUM | H1 |
| MARE NUBIUM | H9 |
| OCEANUS PROCELLARUM | C3 |
| SINUS AESTUUM | K4 |

1 CENTIMETER ≈86 KILOMETERS

N

PHOTO NO. IV-125-M

| | |
|---|---|
| CENTER COORDINATES | LONG. −22.97 |
| | LAT. −14.89 |
| NORTH DEVIATION (DEG.) | 5.58 |
| SUN ANGLE | 71.1 |
| SPACECRAFT ALTITUDE (KM) | 2716.96 |

PLATE 287

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

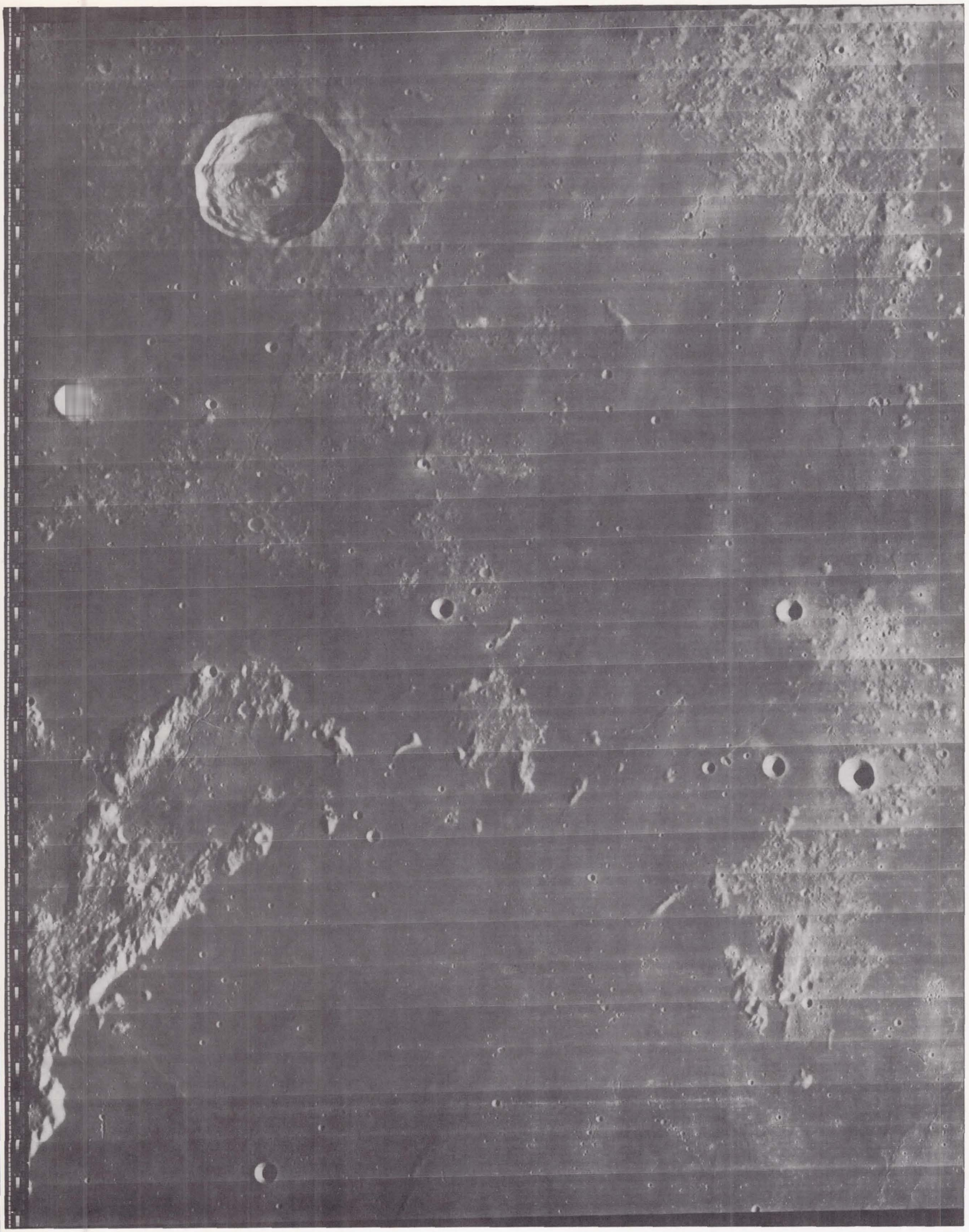


PHOTO NO. IV-125-H3

CENTER COORDINATES ..... LONG.—22.97
LAT. —14.89
NORTH DEVIATION (DEG.) ..... 5.58
SUN ANGLE ..... 71.1
SPACECRAFT ALTITUDE (KM) ..... 2716.97

N

1 CENTIMETER ≈ 11 KILOMETERS

LANSBERG .... J2

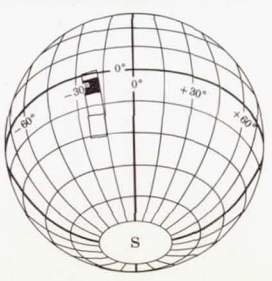
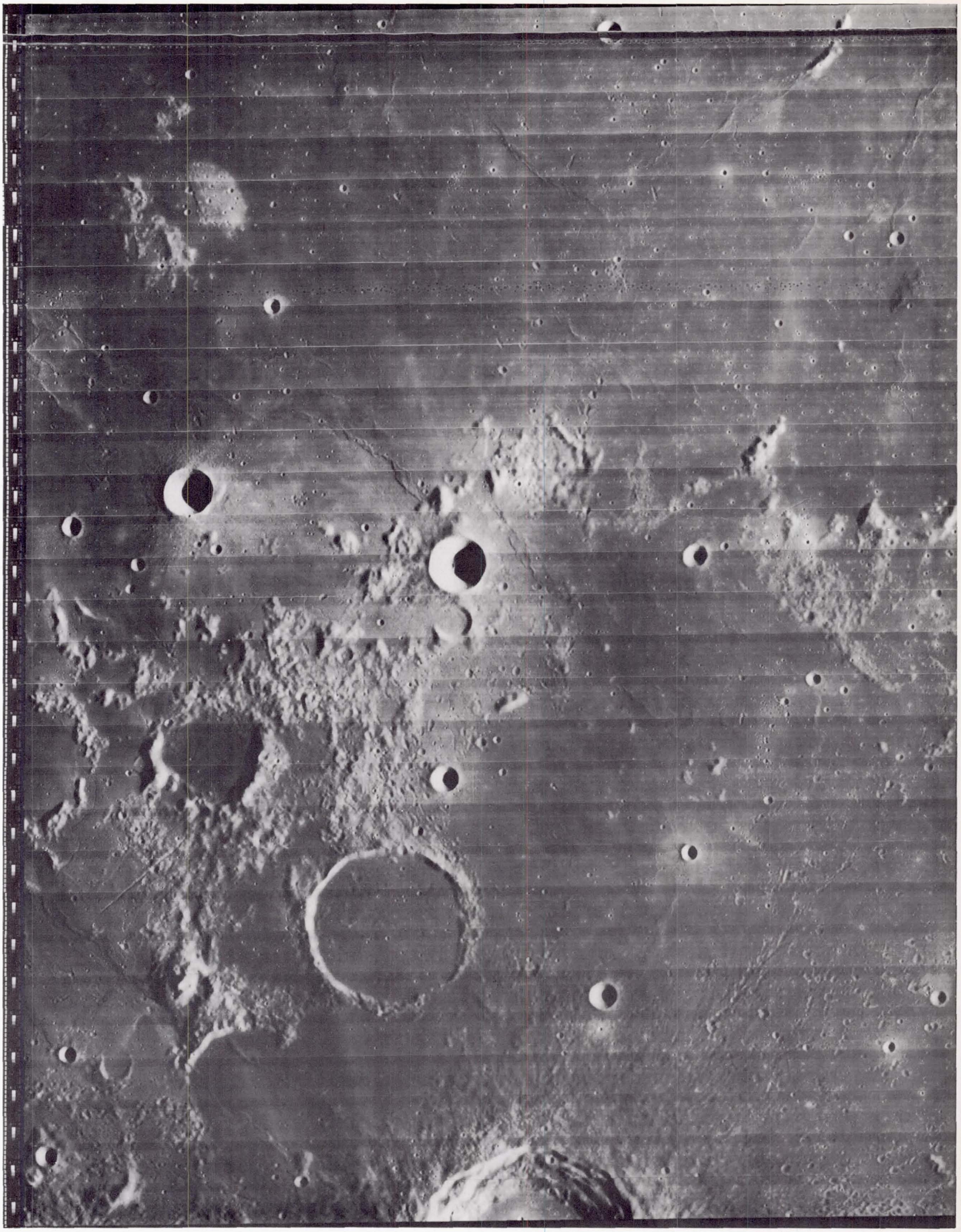
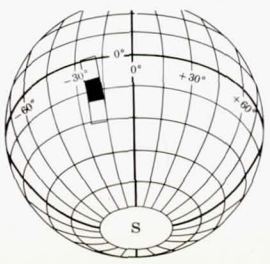



PLATE 288

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BULLIALDUS ..... G15
DARNEY ..... F7
LUBINIEZKY ..... E12

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-125-H2

CENTER COORDINATES ..... LONG. −22.97
LAT. −14.89
NORTH DEVIATION (DEG.) ..... 5.58
SUN ANGLE ..... 71.1
SPACECRAFT ALTITUDE (KM) ..... 2716.97

PLATE 289

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

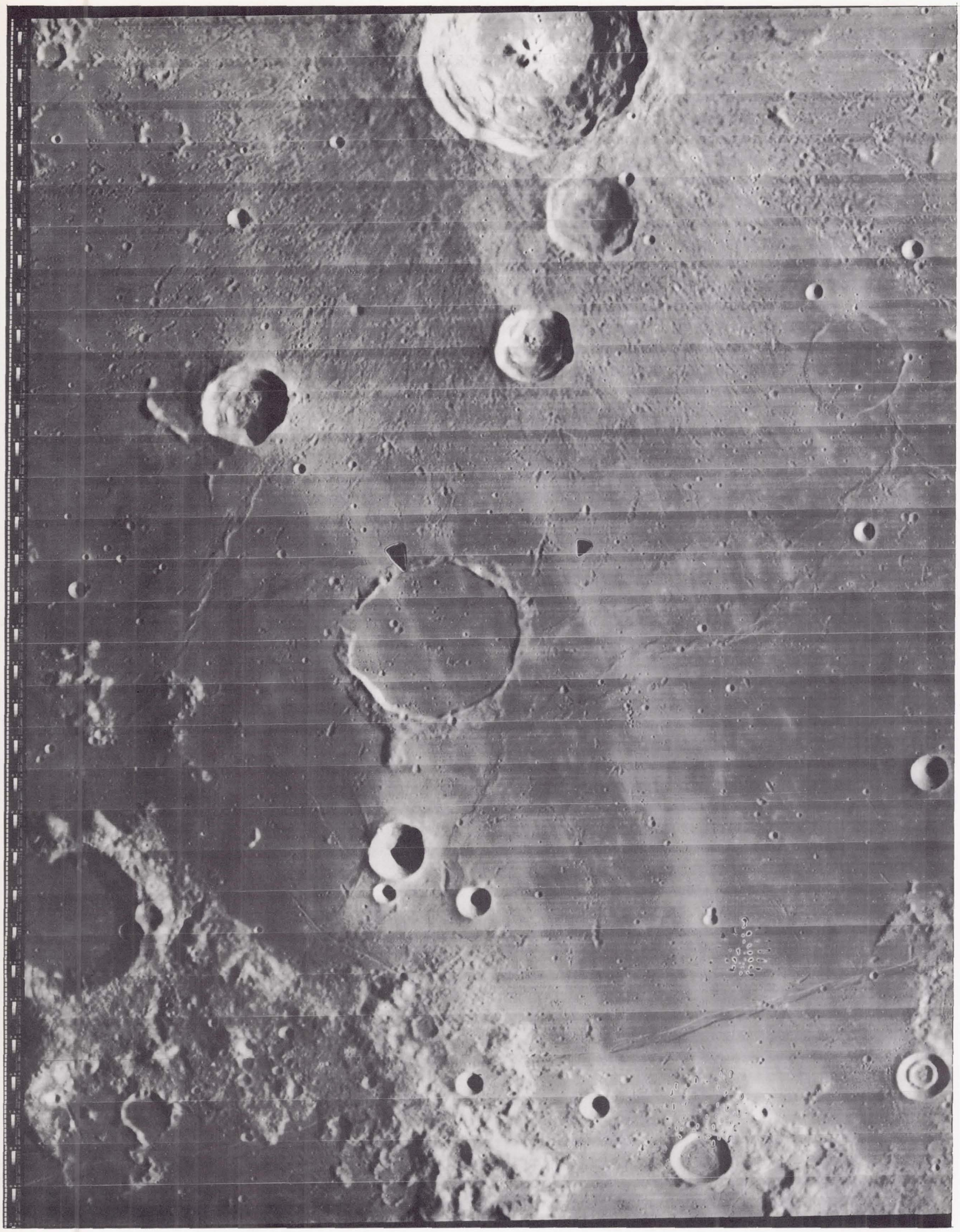


PHOTO NO. IV-125-H1

CENTER COORDINATES ..... LONG–22.97
LAT. –14.89
NORTH DEVIATION (DEG.) ..... 5.58
SUN ANGLE ..... 71.1
SPACECRAFT ALTITUDE (KM) ..... 2716.97

N

1 CENTIMETER ≈ 11 KILOMETERS

BULLIALDUS ..... F1
KIES ..... G8
KONIG ..... J5
MERCATOR ..... M12

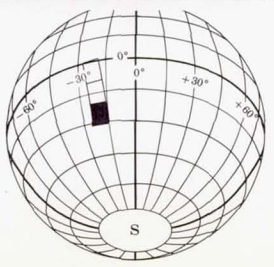
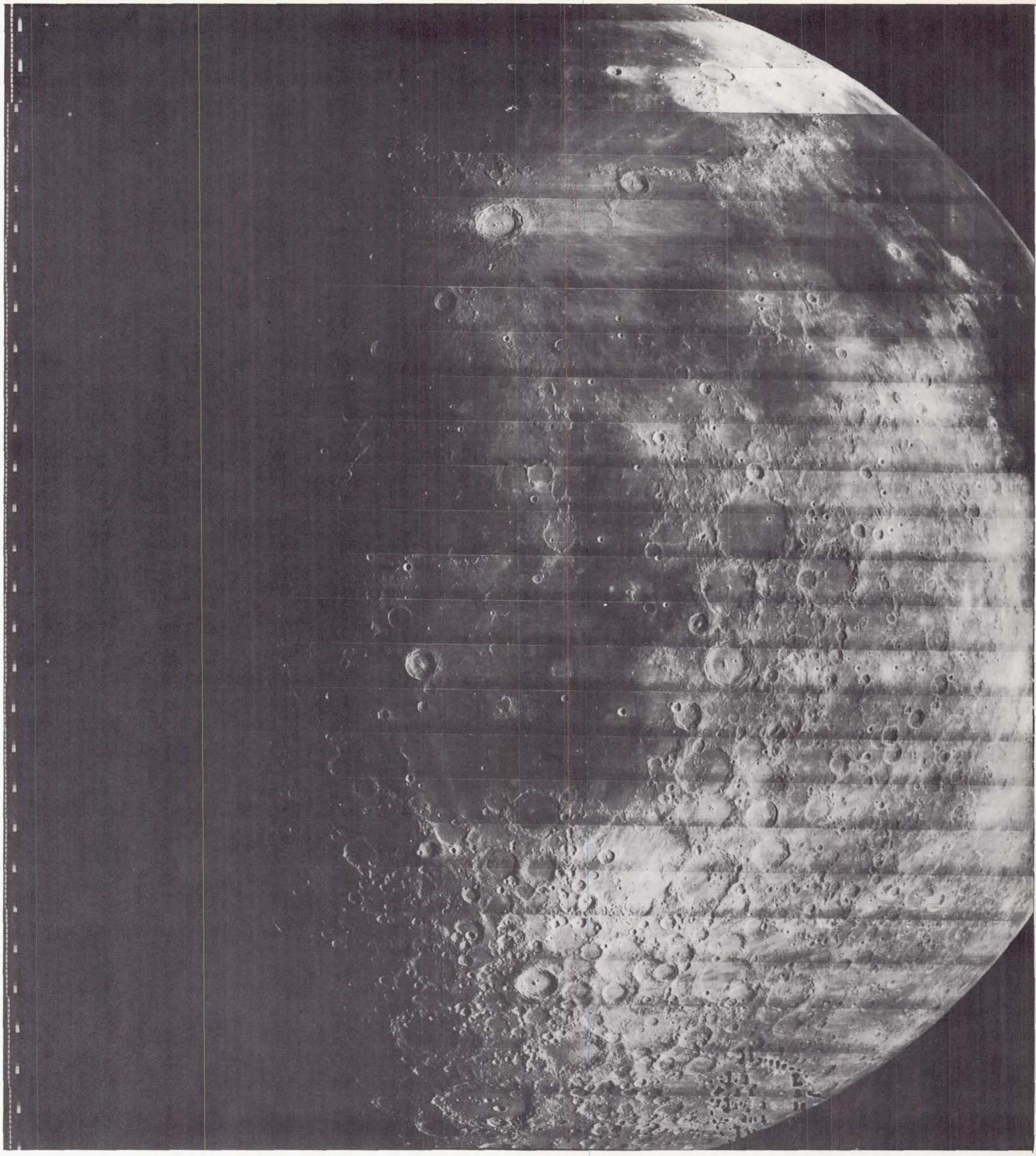
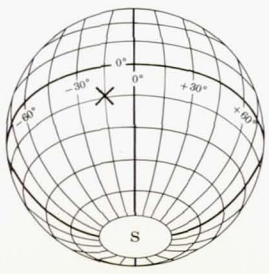



PLATE 290

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE IMBRIUM ..... G1
MARE NUBIUM ..... G9
MARE VAPORUM ..... K3
OCEANUS PROCELLARUM ... E4
SINUS AESTUUM ..... H4

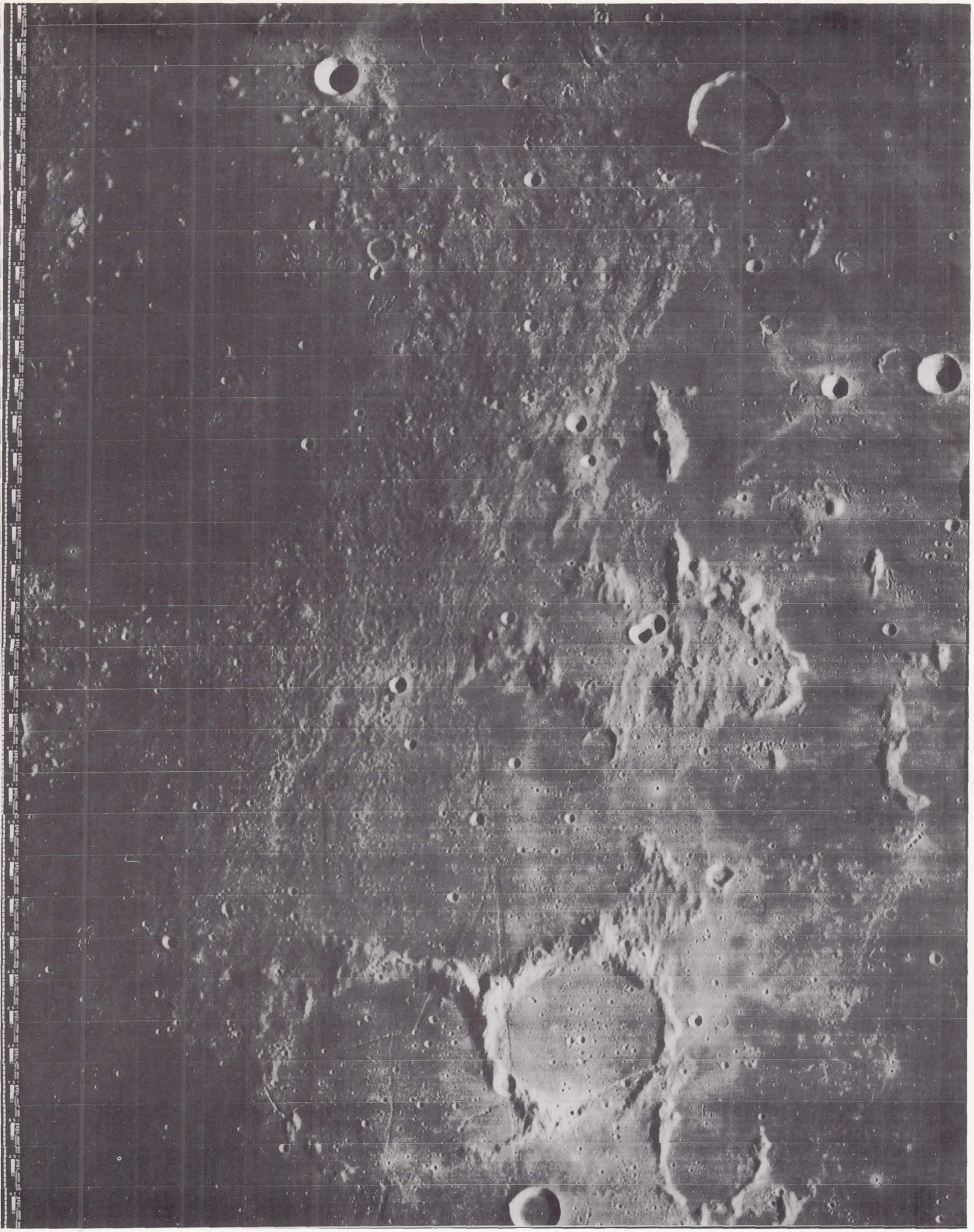
1 CENTIMETER ≈86 KILOMETERS

N

PHOTO NO. IV-120-M

CENTER COORDINATES ..... LONG. —15.64
LAT. —14.28
NORTH DEVIATION (DEG.) ..... 5.82
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) ..... 2717.49

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-120-H3
CENTER COORDINATES .... LONG. – 15.64
LAT. – 14.29
*NORTH DEVIATION (DEG)* ..... 5.82
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) .... 2717.49

N

1 CENTIMETER ≈ 11 KILOMETERS

BONPLAND ..... H14
FRA MAURO .... G11
GAMBART ..... C2
GAMBART A ..... H1
PARRY ..... E13
PARRY M ..... D15
TURNER ..... A5

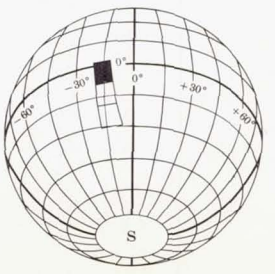
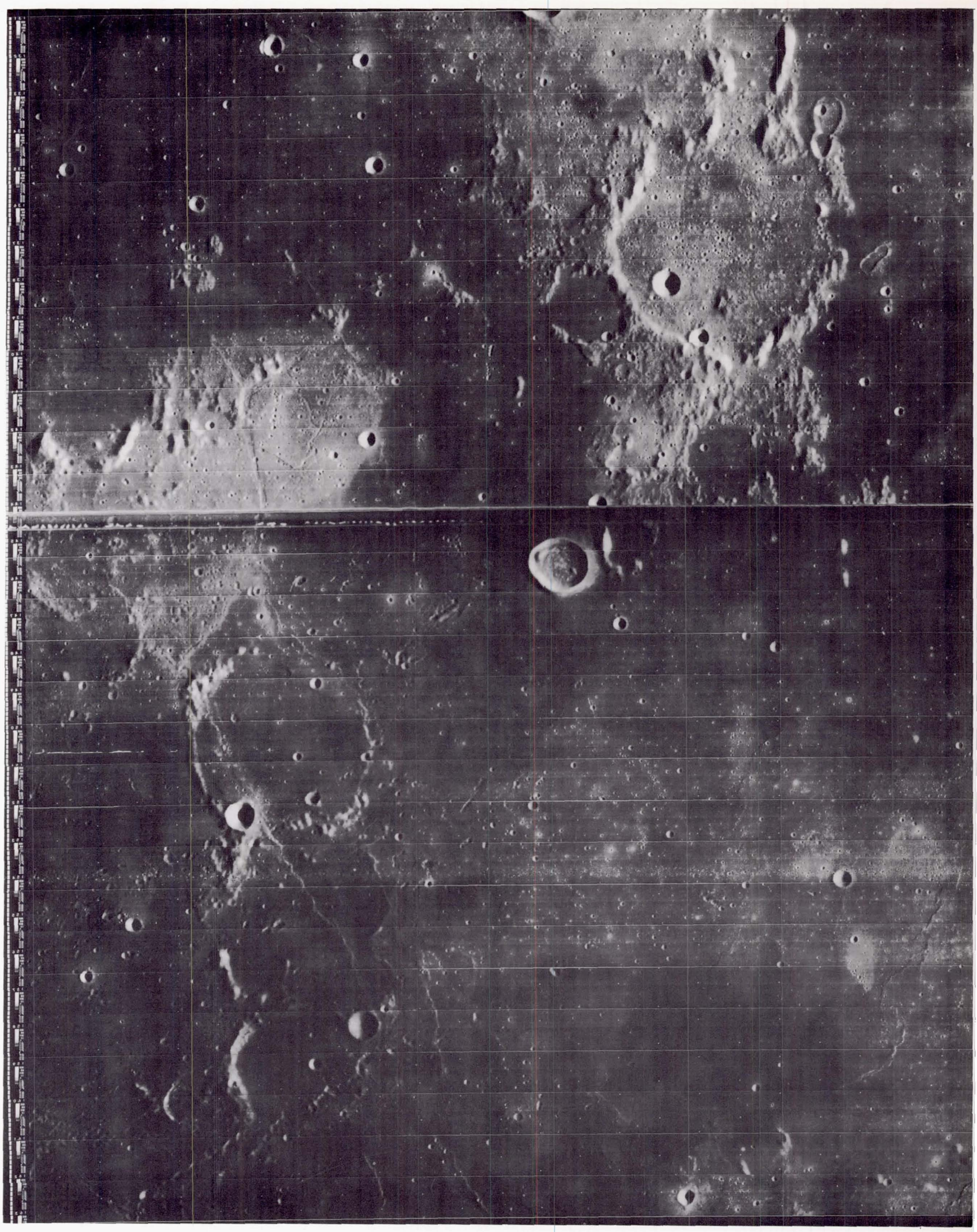
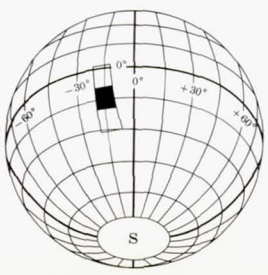



PLATE 292

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






GOULD ..... D14
GUERICKE ..... J3
GUERICKE B .... G7
OPELT ..... D10

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-120-H2
CENTER COORDINATES .... LONG. −15.6
LAT. −14.9
NORTH DEVIATION (DEG) ..... 5.2
SUN ANGLE ..... 69
SPACECRAFT ALTITUDE (KM) .... 2717.5

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

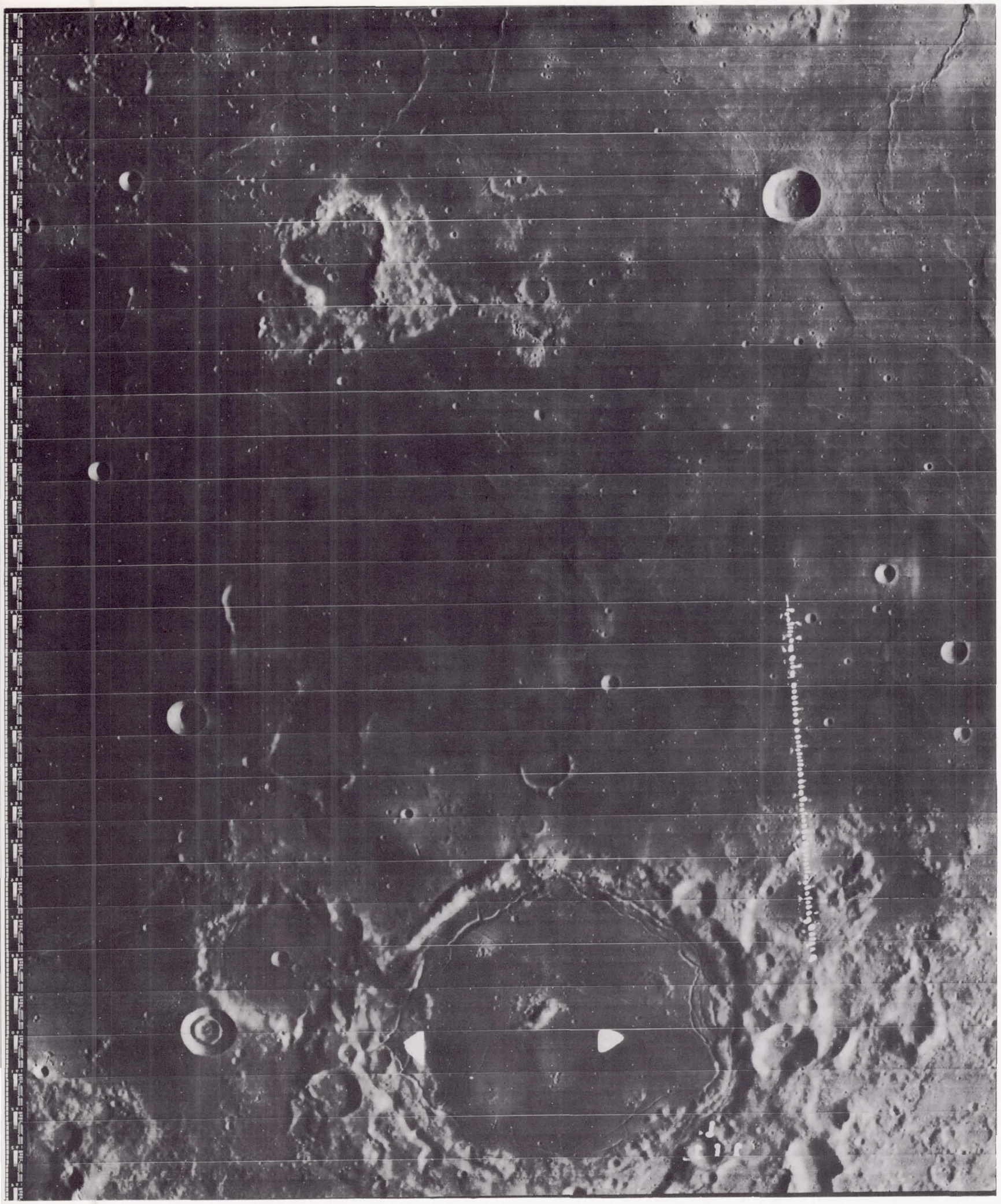


PHOTO NO. IV 120 H1
CENTER COORDINATE ..... LONG. – 15.64
LAT. – 1429
NORTH DEVIATION (DEG) ..... 5.82
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) .... 2717.50

N

1 CENTIMETER ≈ 11 KILOMETERS

HESIODUS ..... J12
LIPPERSHEY ..... A8
MARE NUBIUM .... H7
NICOLLET ..... C3
PITATUS ..... F13
WOLF ..... H4

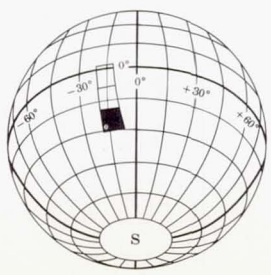
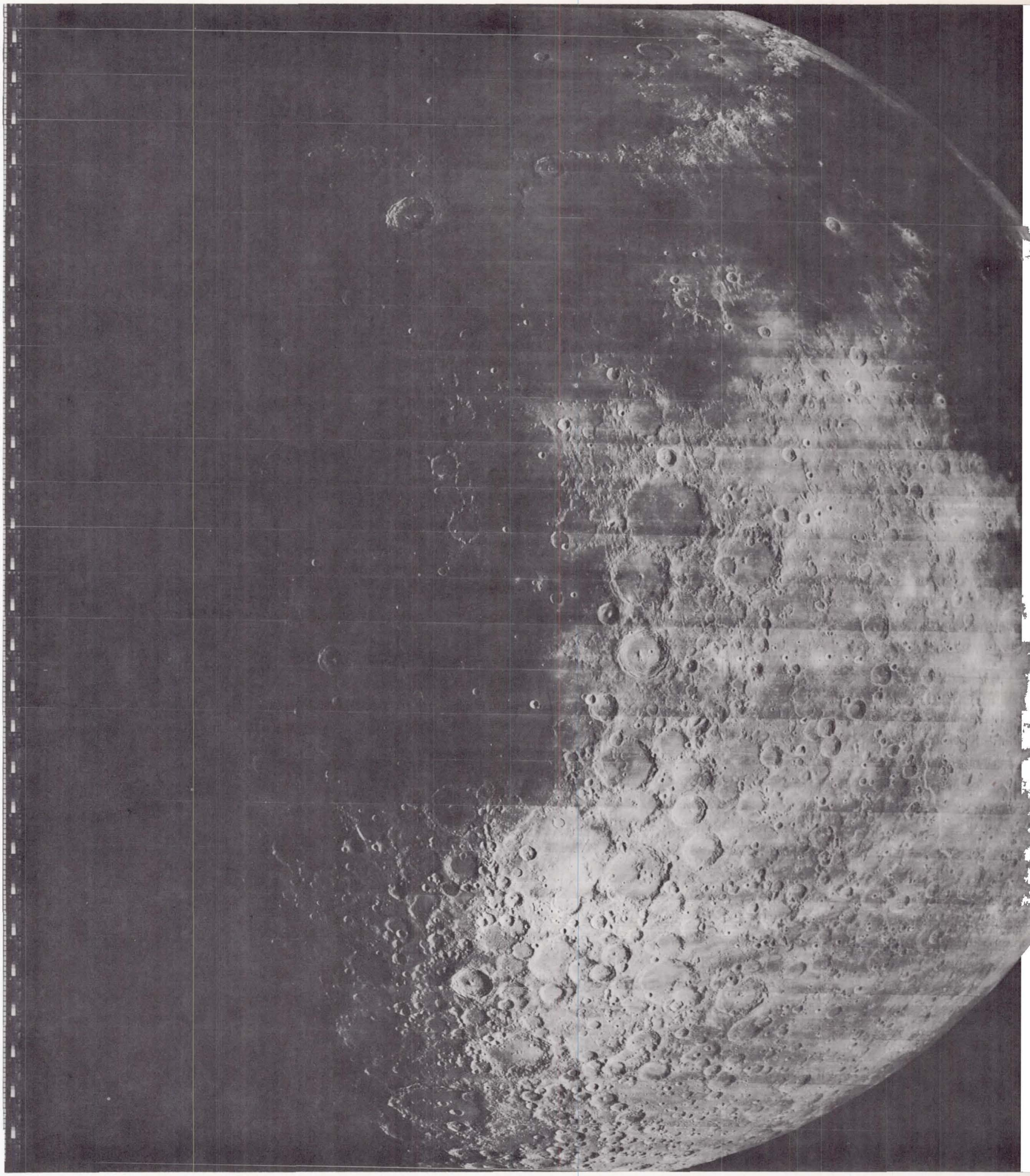
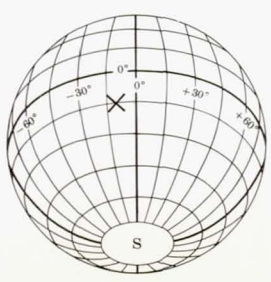



PLATE 294

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE NUBIUM | F8 |
| MARE SERENITATIS | L2 |
| MARE TRANQUILLITATIS | M5 |
| MARE VAPORUM | J3 |
| SINUS AESTUUM | G3 |

1 CENTIMETER ≈86 KILOMETERS

N

PHOTO NO. IV-113-M

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | −9.51 |
| LAT. | −14.63 |
| NORTH DEVIATION (DEG.) ..... | 5.89 |
| SUN ANGLE ..... | 69.9 |
| SPACECRAFT ALTITUDE (KM) ..... | 2718.01 |

PLATE 295

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 3 • 14 • 15 •



PHOTO NO. IV-113-H3

ENTER COORDINATES ..... LONG. —9.51
LAT. —14.64
ORTH DEVIATION (DEG.) ..... 5.89
UN ANGLE ..... 69.9
PACECRAFT ALTITUDE (KM) ..... 2718.02

N

1 CENTIMETER ≈11 KILOMETERS

LALANDE ..... D8
MOSTING ..... A2
TURNER ..... K3

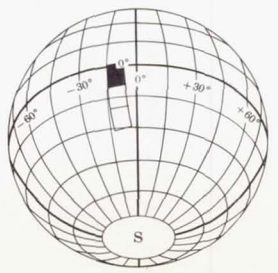
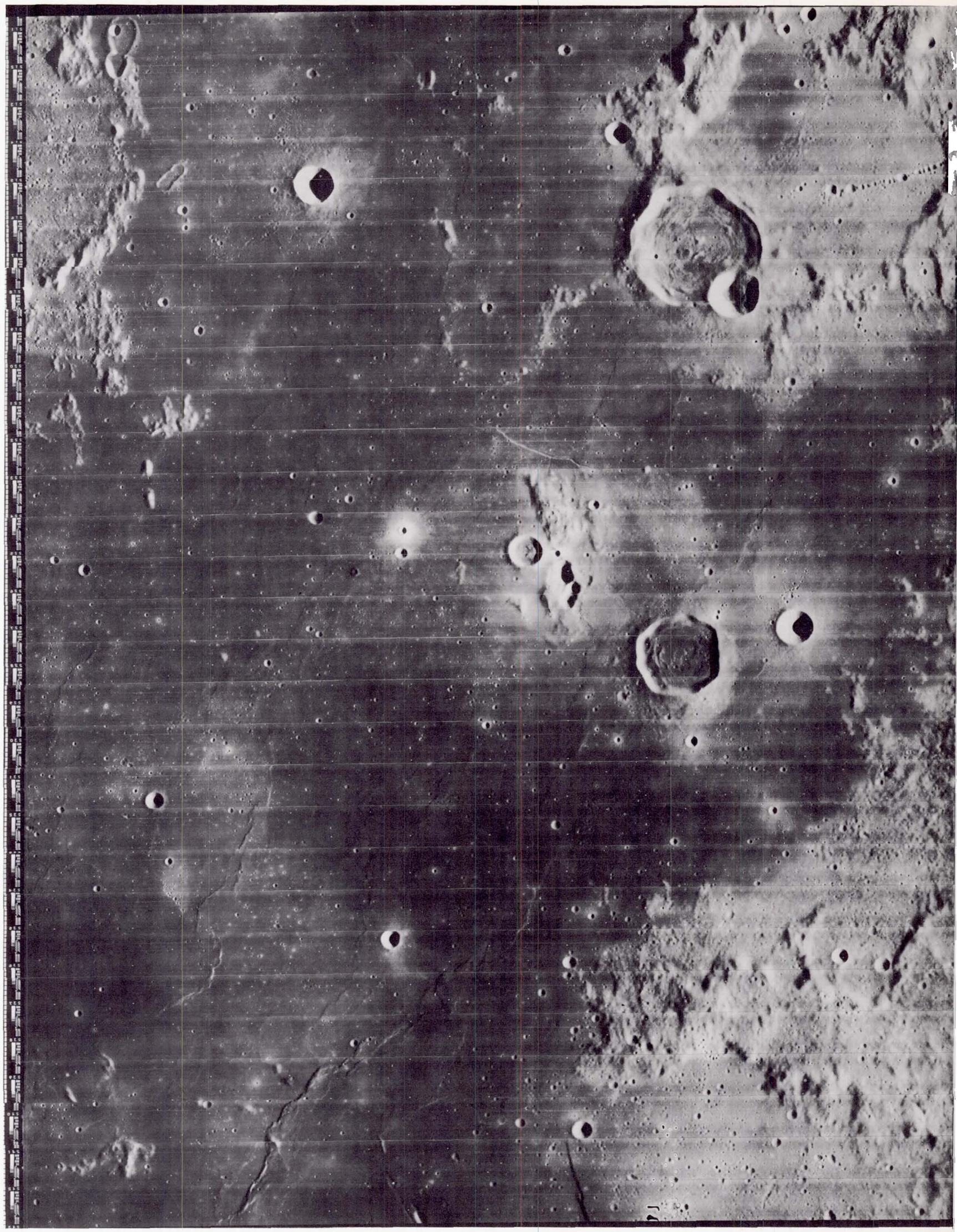
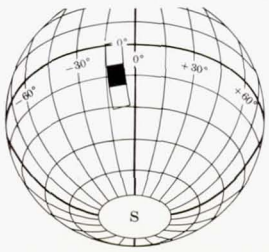



PLATE 296




DAVY ..... J3
GUERICKE ..... A2
LASSELL ..... J9

1 CENTIMETER≈11 KILOMETERS

N

PHOTO NO. IV-113-H2

CENTER COORDINATES ..... LONG. −9.51
LAT. −14.64
NORTH DEVIATION (DEG.) ..... 5.89
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) ..... 2718.02

PLATE 297

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

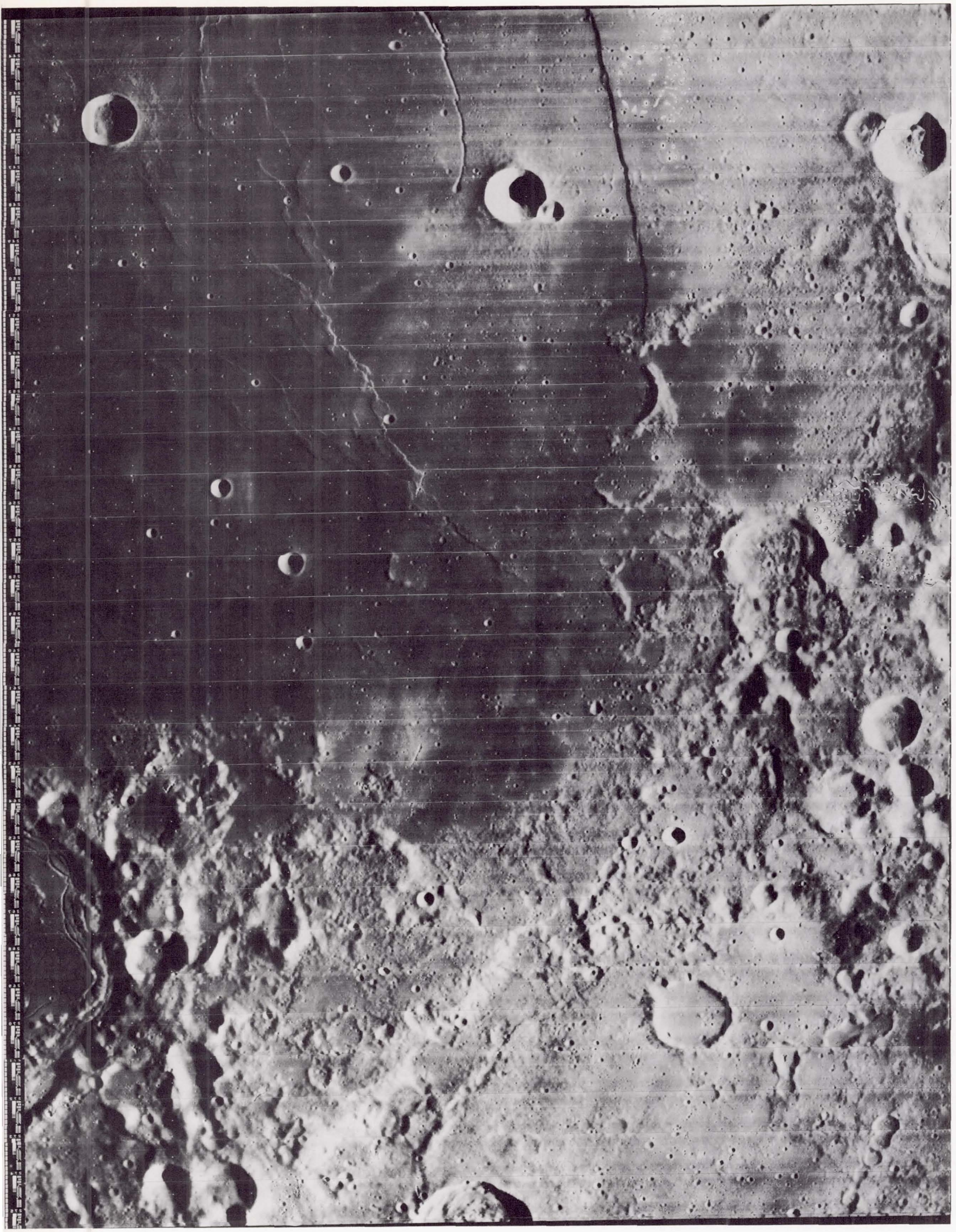


PHOTO NO. IV-113-H1

CENTER COORDINATES ..... LONG. —9.51
LAT. —14.64
NORTH DEVIATION (DEG.) ..... 5.89
SUN ANGLE ..... 69.9
SPACECRAFT ALTITUDE (KM) ..... 2718.02

N

1 CENTIMETER ≈11 KILOMETERS

BIRT ..... F3
DES LANDRES... E14
NICOLLET ..... L2
PITATUS ..... M12
THEBIT ..... A3

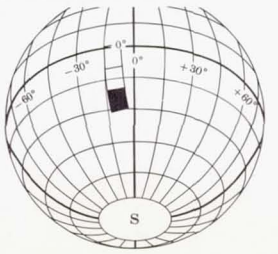
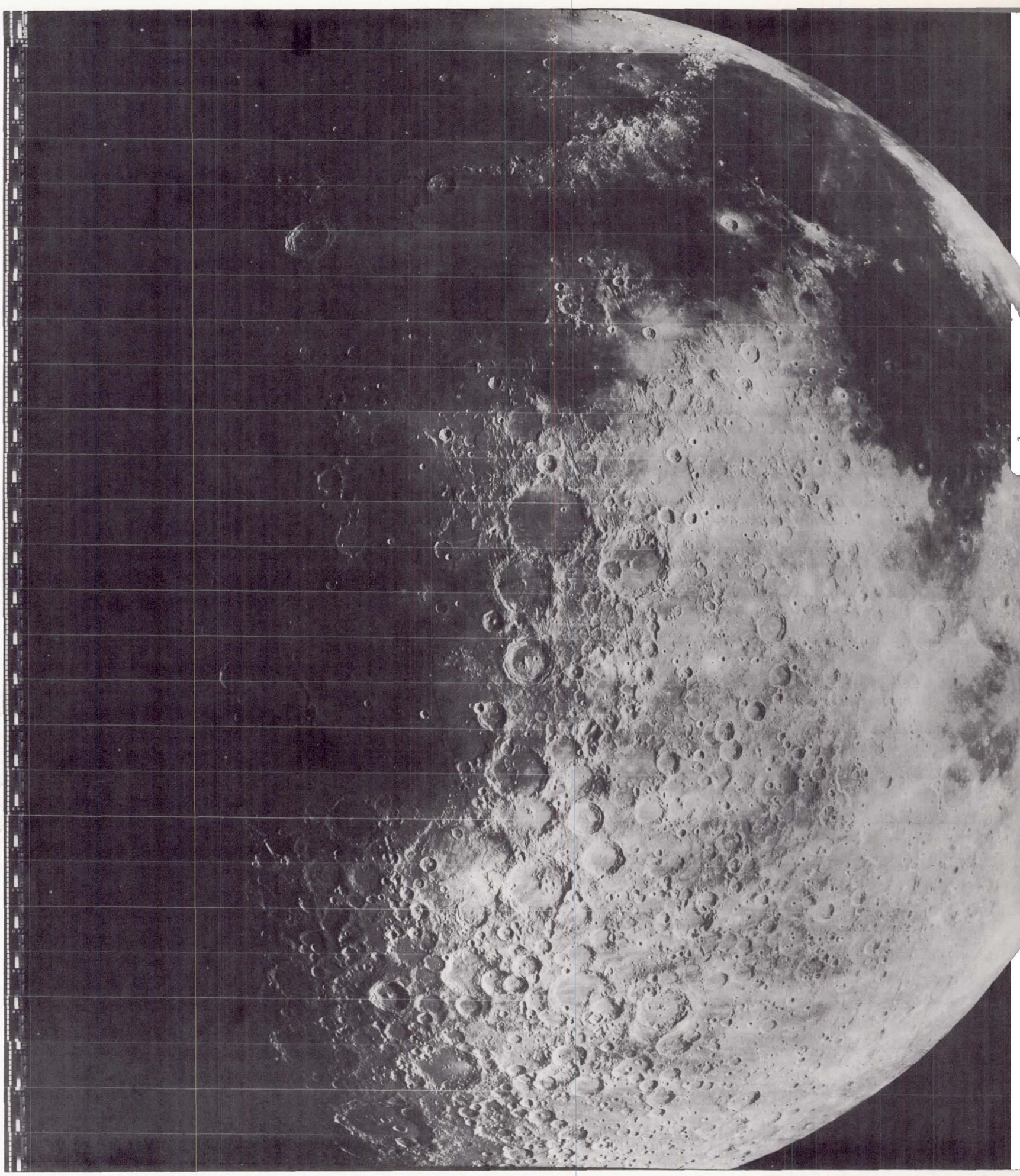
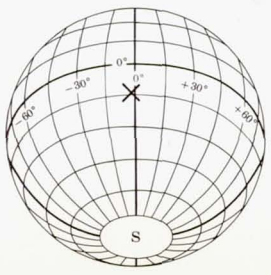



PLATE 298

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE NUBIUM | E9 |
| MARE SERENITATIS | K2 |
| MARE TRANQUILLITATIS | L5 |
| MARE VAPORUM | H3 |
| SINUS AESTUUM | F4 |

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-108-M

| | |
|---|---|
| CENTER COORDINATES | LONG. −2.36 |
| | LAT. −14.26 |
| NORTH DEVIATION (DEG.) | 5.71 |
| SUN ANGLE | 68.9 |
| SPACECRAFT ALTITUDE (KM) | 2719.00 |

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-108-H3

CENTER COORDINATES ..... LONG. —2.36
LAT. —14.26
NORTH DEVIATION (DEG.) ..... 5.71
SUN ANGLE ..... 68.9
SPACECRAFT ALTITUDE (KM) ..... 2719.01

N

1 CENTIMETER ≈ 11 KILOMETERS

FLAMMARION ..... F8
GLYDEN ..... A11
HERSCHEL ..... D12
MOSTING ..... J5
OPPOLZER ..... B6
PTOLEMAEUS ..... D15
REAUMUR ..... A8

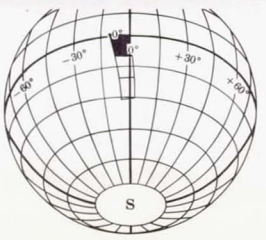
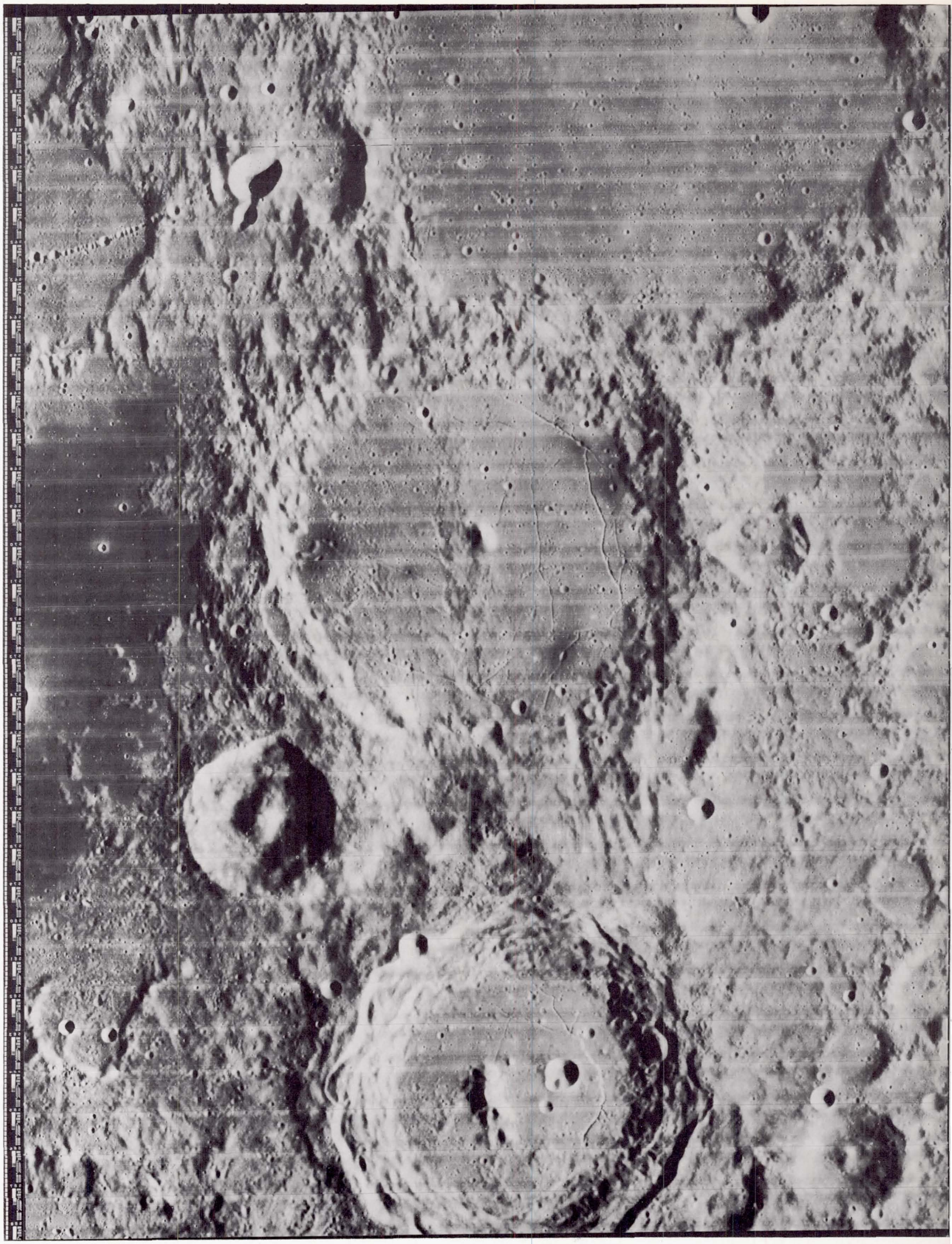
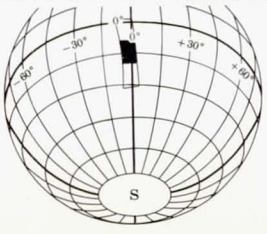



PLATE 300

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ALPETRAGIUS .... D11
ALPHONSUS ..... F7
ARZACHEL ..... G14
PTOLEMAEUS ..... J2

1 CENTIMETER ≈ 11 KILOMETERS

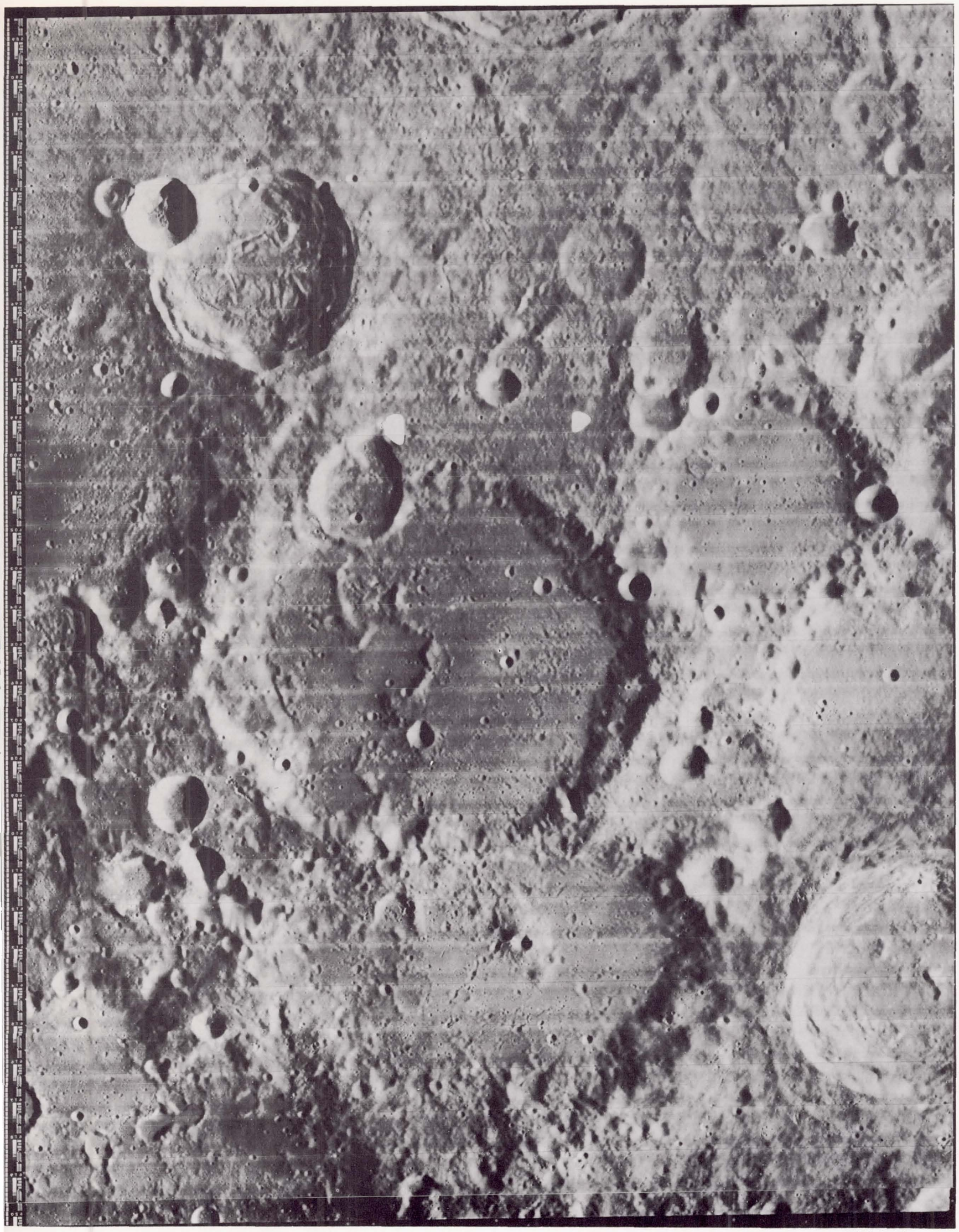
N

PHOTO NO. IV-108-H2

CENTER COORDINATES ..... LONG. —2.36
LAT. —14.26
NORTH DEVIATION (DEG.) ..... 5.71
SUN ANGLE ..... 68.9
SPACECRAFT ALTITUDE (KM) ..... 2719.01

PLATE 301

M • L • K • J • H • G • F • E • D • C • B • A



2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-108-H1

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | −2.36 |
| | LAT. | −14.26 |
| NORTH DEVIATION (DEG.) | | 5.71 |
| SUN ANGLE | | 68.9 |
| SPACECRAFT ALTITUDE (KM) | | 2719.01 |

N

1 CENTIMETER ≈ 11 KILOMETERS

| | |
|---|---|
| BLANCHINUS | A9 |
| LA CAILLE | C7 |
| PURBACH | G9 |
| REGIOMONTANUS | F13 |
| THEBIT | J4 |
| WERNER | A13 |

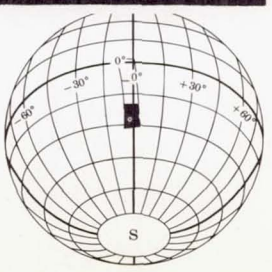
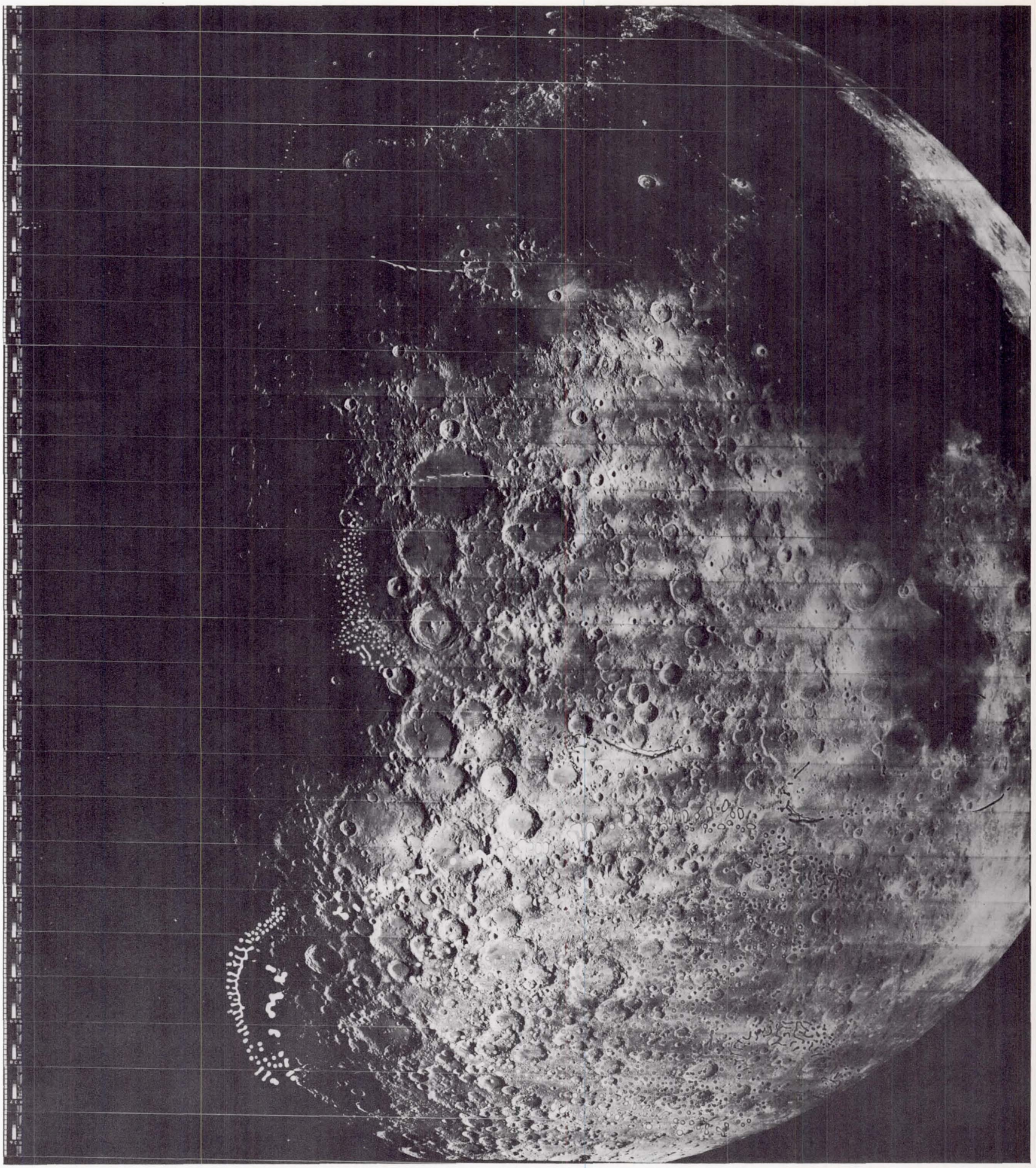
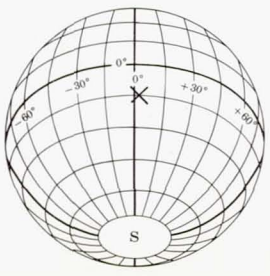



PLATE 302

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| MARE NECTARIS | L8 |
| MARE NUBIUM | D8 |
| MARE VAPORUM | G3 |
| MARE SERENITATIS | J2 |
| MARE TRANQUILLITATIS | L4 |
| SINUS AESTUUM | E3 |

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-101-M

| | |
|---|---|
| CENTER COORDINATES | LONG. 3.83 |
| | LAT. −15.19 |
| NORTH DEVIATION (DEG.) | 6.10 |
| SUN ANGLE | 68.9 |
| SPACECRAFT ALTITUDE (KM) | 2720.43 |

PLATE 303

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

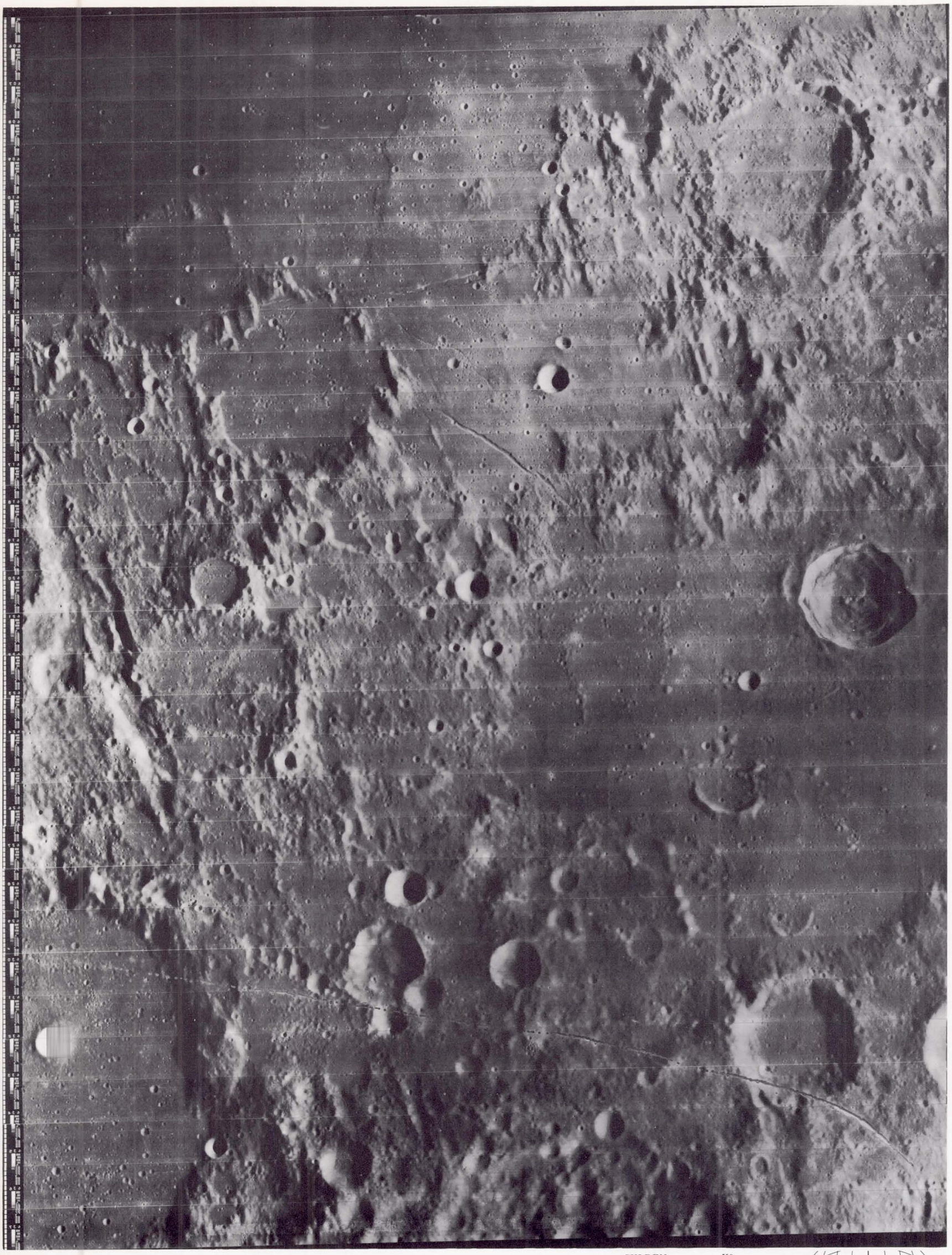


PHOTO NO. IV-101-H3

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. 3.83 |
| | LAT. —15.19 |
| NORTH DEVIATION (DEG.) ..... | 6.10 |
| SUN ANGLE ..... | 68.9 |
| SPACECRAFT ALTITUDE (KM) ..... | 2720.44 |

N

1 CENTIMETER ≈ 11 KILOMETERS

| | |
|---|---|
| GYLDEN ..... | K9 |
| HALLEY ..... | C14 |
| HIPPARCHUS ..... | D9 |
| HORROCKS ..... | B8 |
| MÜLLER ..... | H13 |
| OPPOLZER ..... | K4 |
| PTOLEMAEUS .... | L14 |
| RÉAUMUR ..... | J5 |
| RHAETICUS ..... | C2 |

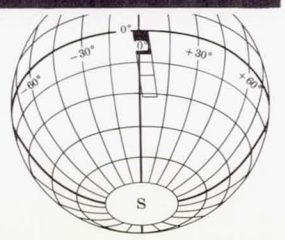
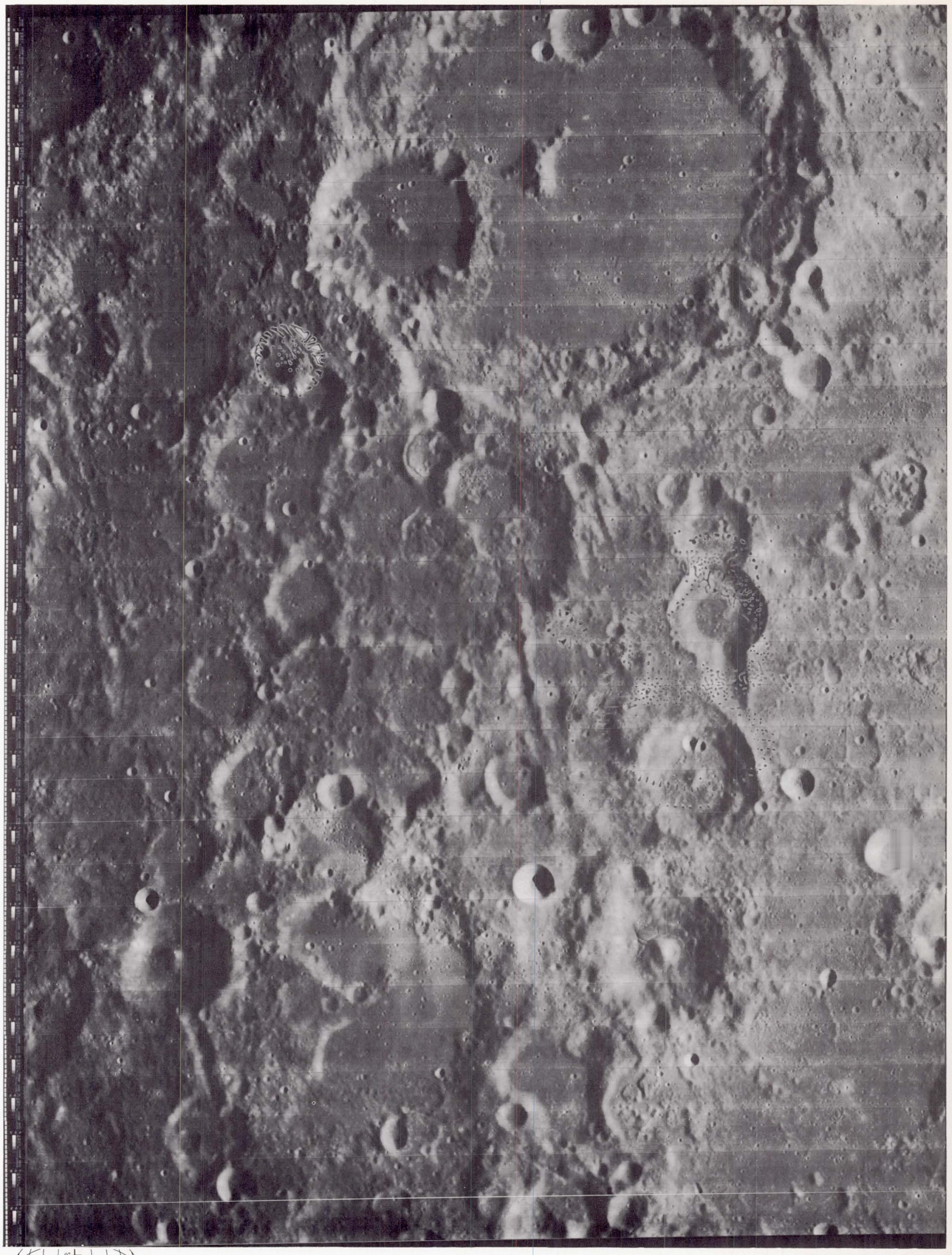
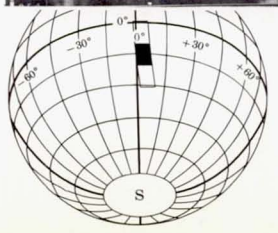



PLATE 304

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15






| | |
|---|---|
| AIRY C | G14 |
| AIRY L | L16 |
| ALBATEGNIUS | H3 |
| ARGELANDER | J10 |
| DONATI | G16 |
| KLEIN | F3 |
| PARROT | F8 |
| PARROT C | C12 |
| PARROT H | C11 |

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-101-H2

| | |
|---|---|
| CENTER COORDINATES | LONG. 3.83 |
| | LAT. −15.19 |
| NORTH DEVIATION (DEG.) | 6.10 |
| SUN ANGLE | 68.9 |
| SPACECRAFT ALTITUDE (KM) | 2720.44 |

PLATE 305

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

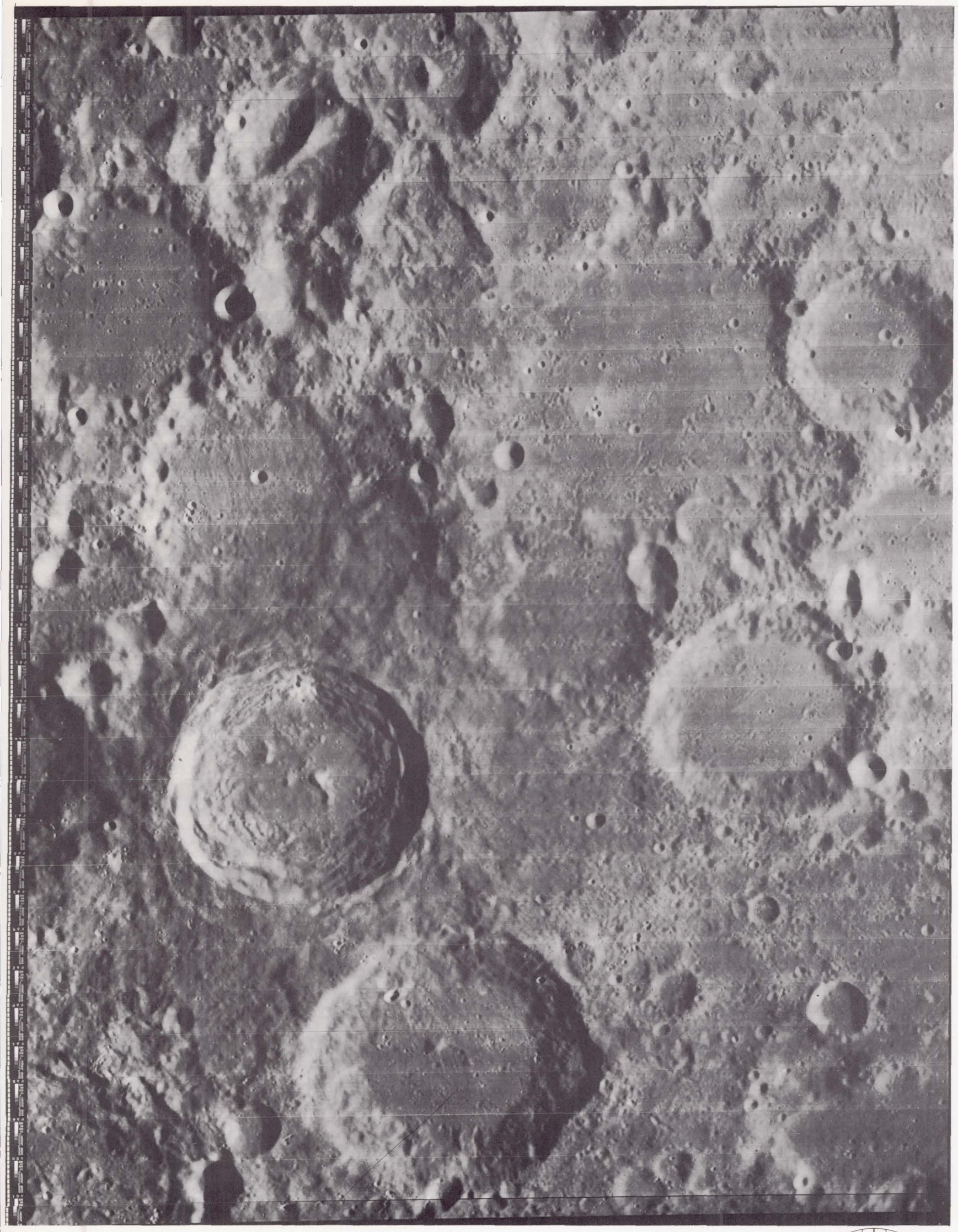


PHOTO NO. IV-101-H1

CENTER COORDINATES ..... LONG. 3.83
LAT. —15.19
NORTH DEVIATION (DEG.) ..... 6.10
SUN ANGLE ..... 68.9
SPACECRAFT ALTITUDE (KM) .....2720.44

N

1 CENTIMETER ≈ 11 KILOMETERS

ALIACENSIS ..... F14
APIANUS ..... C9
BLANCHINUS ..... K6
DELAUNAY ..... J2
DONATI ..... E1
FAYE ..... G1
KRUSENSTERN .... F8
LA CAILLE ..... L4
PLAYFAIR ..... B5
WERNER ..... J10

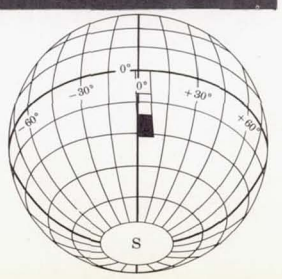
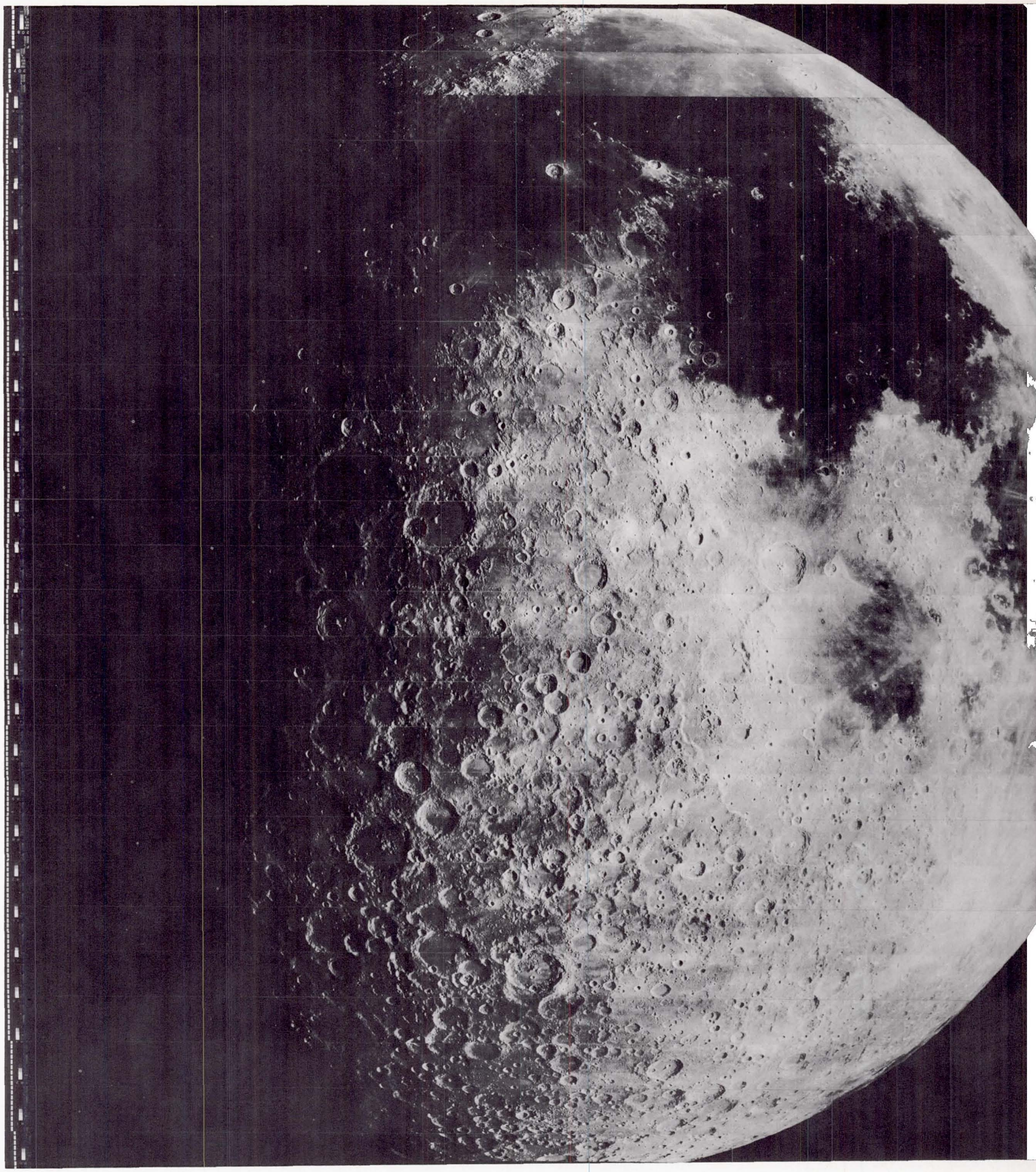
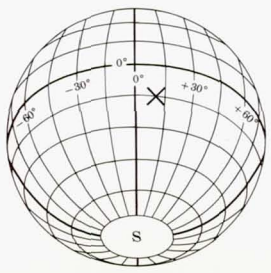



PLATE 306




MARE NECTARIS ..... L9
MARE TRANQUILLITATIS .... L4

1 CENTIMETER ≈ 86 KILOMETERS

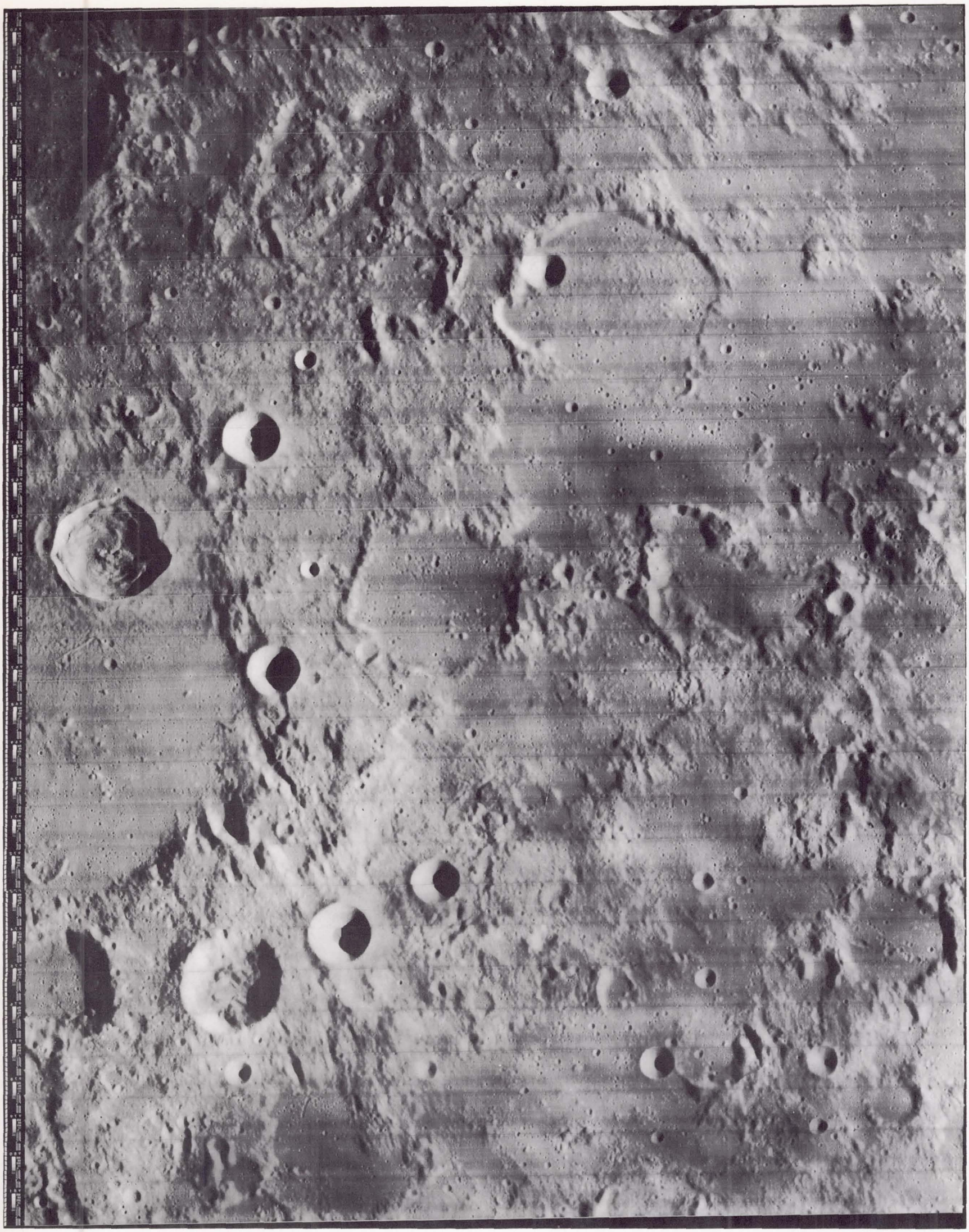



PHOTO NO. IV-96-M

CENTER COORDINATES ..... LONG. 10.67
LAT.—15.17
NORTH DEVIATION (DEG.) ..... 5.86
SUN ANGLE ..... 68.2
SPACECRAFT ALTITUDE (KM) .... 2722.25

PLATE 307

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-96-H3

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | 10.67 |
| | LAT. | —15.18 |
| NORTH DEVIATION (DEG.) | | 5.86 |
| SUN ANGLE | | 68.2 |
| SPACECRAFT ALTITUDE (KM) | | 2722.26 |

N

1 CENTIMETER ≈ 11 KILOMETERS

| | |
|---|---|
| HALLEY | M13 |
| HARROCKS | L7 |
| HIND | K13 |
| HIPPARCHUS | L9 |
| LADE | E4 |
| PICKERING | J6 |
| SAUNDER | G8 |

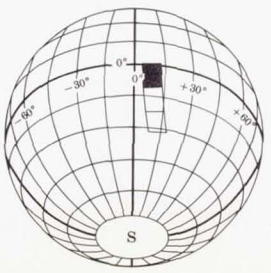
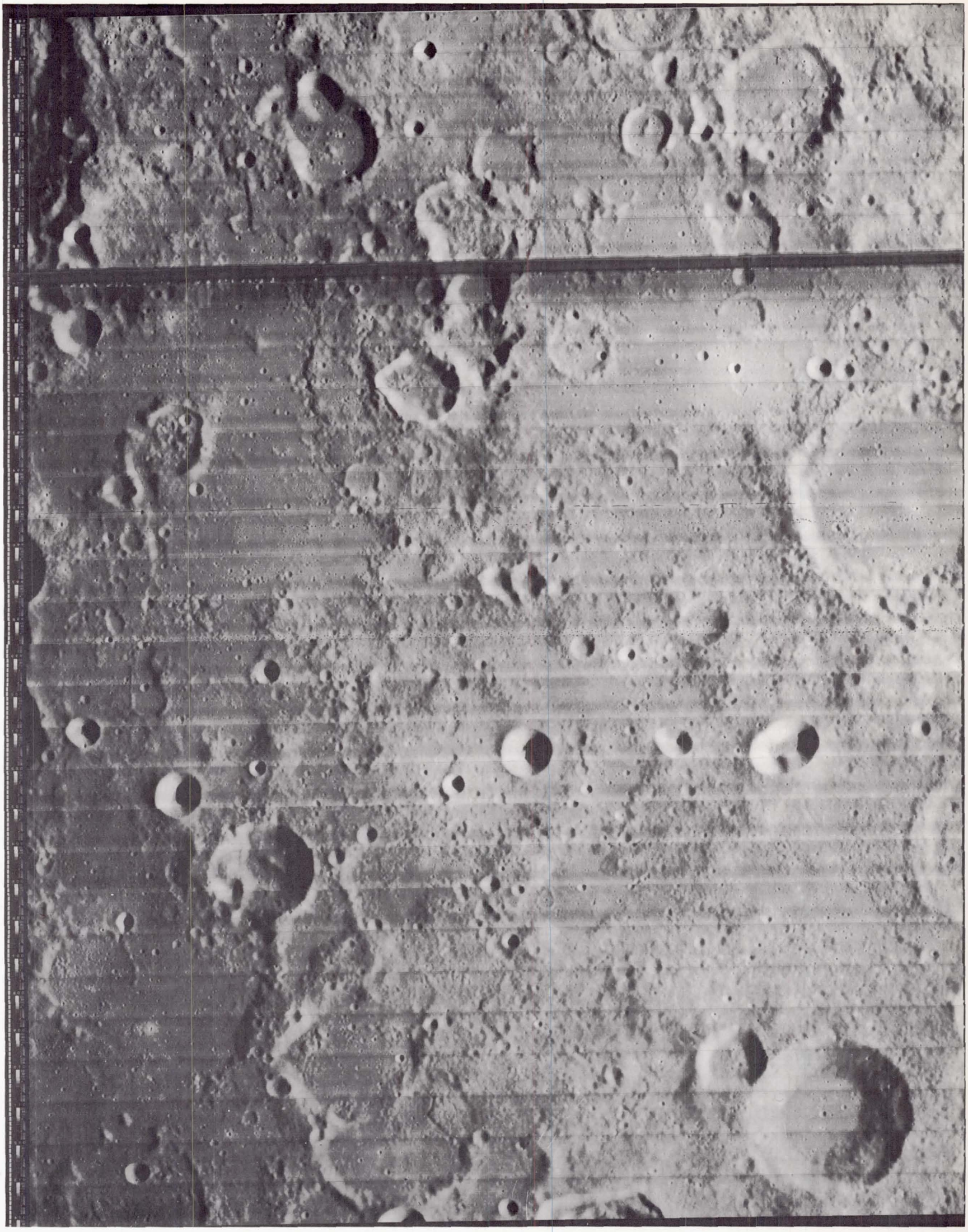
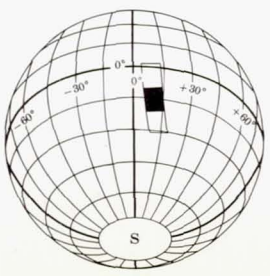



PLATE 308

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ABULFEDA ..... L7
ALBATEGNIUS .... B2
ALMANON ..... M11
ANDEL ..... K2
GEBER ..... L14
RITCHEY ..... E2

1 CENTIMETER ≈11 KILOMETERS

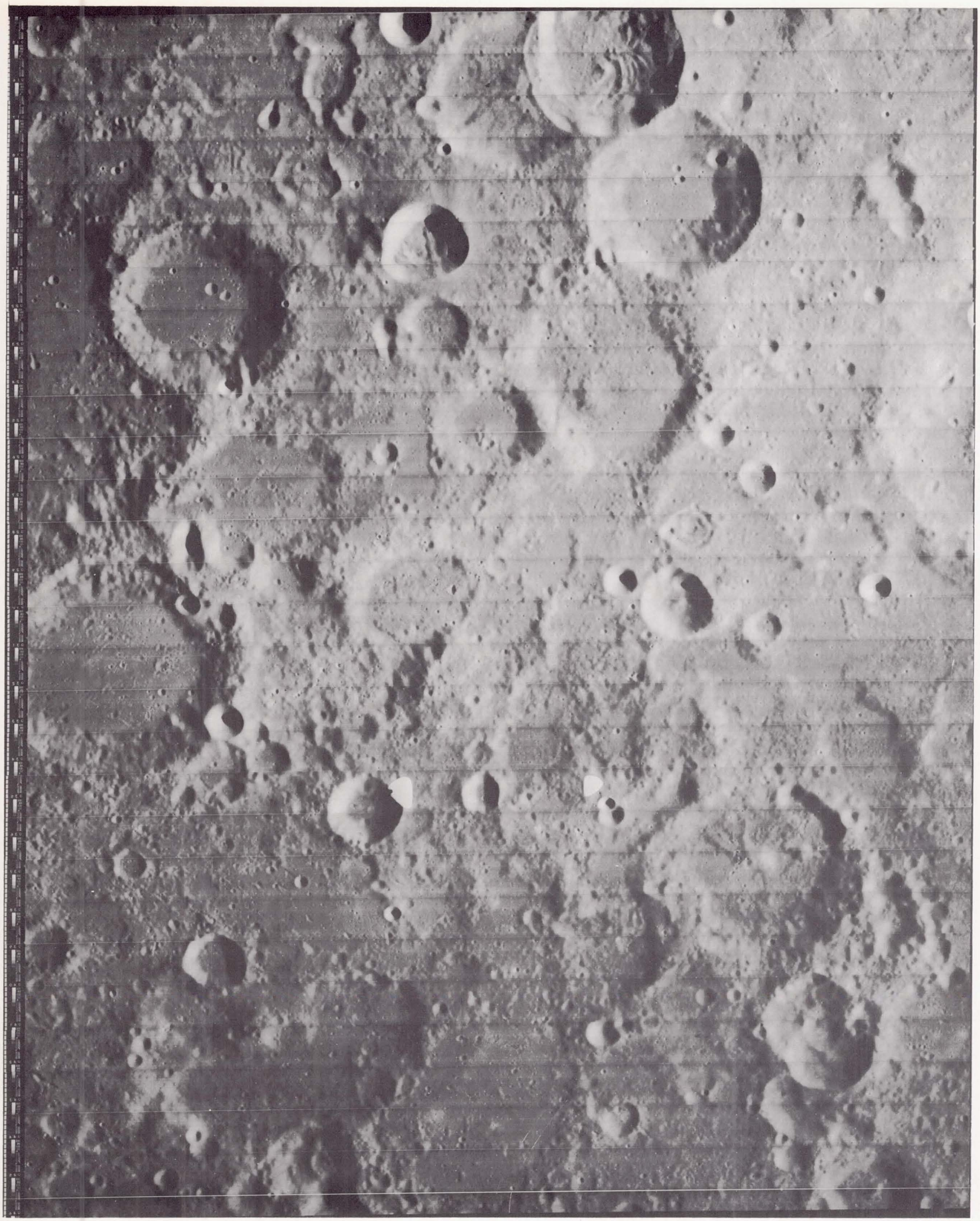
N

PHOTO NO. IV-96-H2

CENTER COORDINATES ..... LONG. 10.67
LAT. —15.18
NORTH DEVIATION (DEG.) ..... 5.86
SUN ANGLE ..... 68.2
SPACECRAFT ALTITUDE (KM) ... 2722.26

PLATE 309

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-96- H1

CENTER COORDINATES ..... LONG. 10.67
LAT. —15.18
NORTH DEVIATION (DEG.) ..... 5.86
SUN ANGLE ..... 68.2
SPACECRAFT ALTITUDE (KM) ..... 2722.26

N

1 CENTIMETER ≈ 11 KILOMETERS

ABENEZRA ..... E1
APIANUS ..... L9
AZOPHI ..... D3
PLAYFAIR ..... K4
PONTANUS ..... C11
SACROBOSCO .... A6

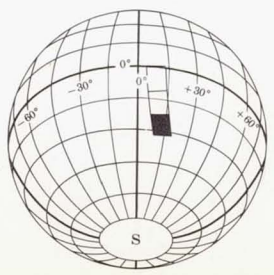
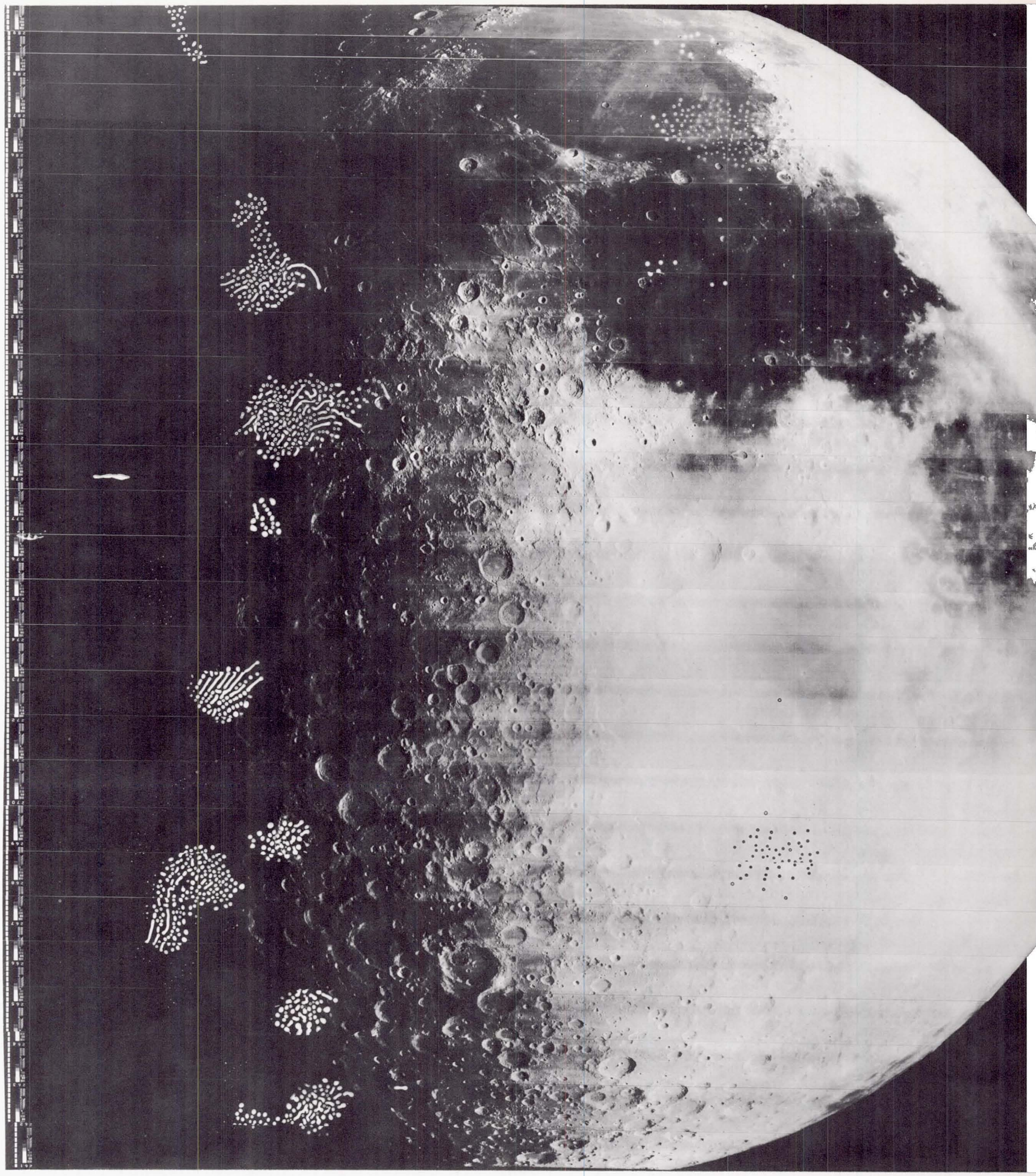
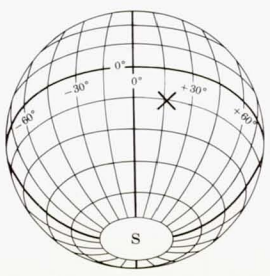



PLATE 310

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS ..... M6
MARE TRANQUILLITATIS .... J4
MARE SERENITATIS ..... H1

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-89-M

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. 16.90 |
| | LAT. −15.09 |
| NORTH DEVIATION (DEG.) ..... | 5.85 |
| SUN ANGLE ..... | 68.1 |
| SPACECRAFT ALTITUDE (KM) ..... | 2724.40 |

PLATE 311

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-89-H3

CENTER COORDINATES ..... LONG. 16.90
LAT. —15.09
NORTH DEVIATION (DEG.) ..... 5.85
SUN ANGLE ..... 68.1
SPACECRAFT ALTITUDE (KM) .... 2724.41

N

1 CENTIMETER ≃ 11 KILOMETERS

ALFRAGANUS ....B10
DELAMBRE ..... C5
DOLLOND B .... J12
TAYLOR ..... E9
TAYLOR A ..... F8
THEON JR ..... F5
THEON SR ..... F3
ZOLLNER ..... B13

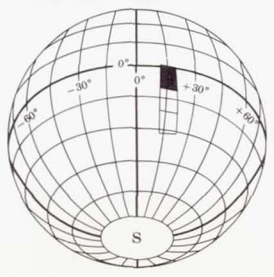
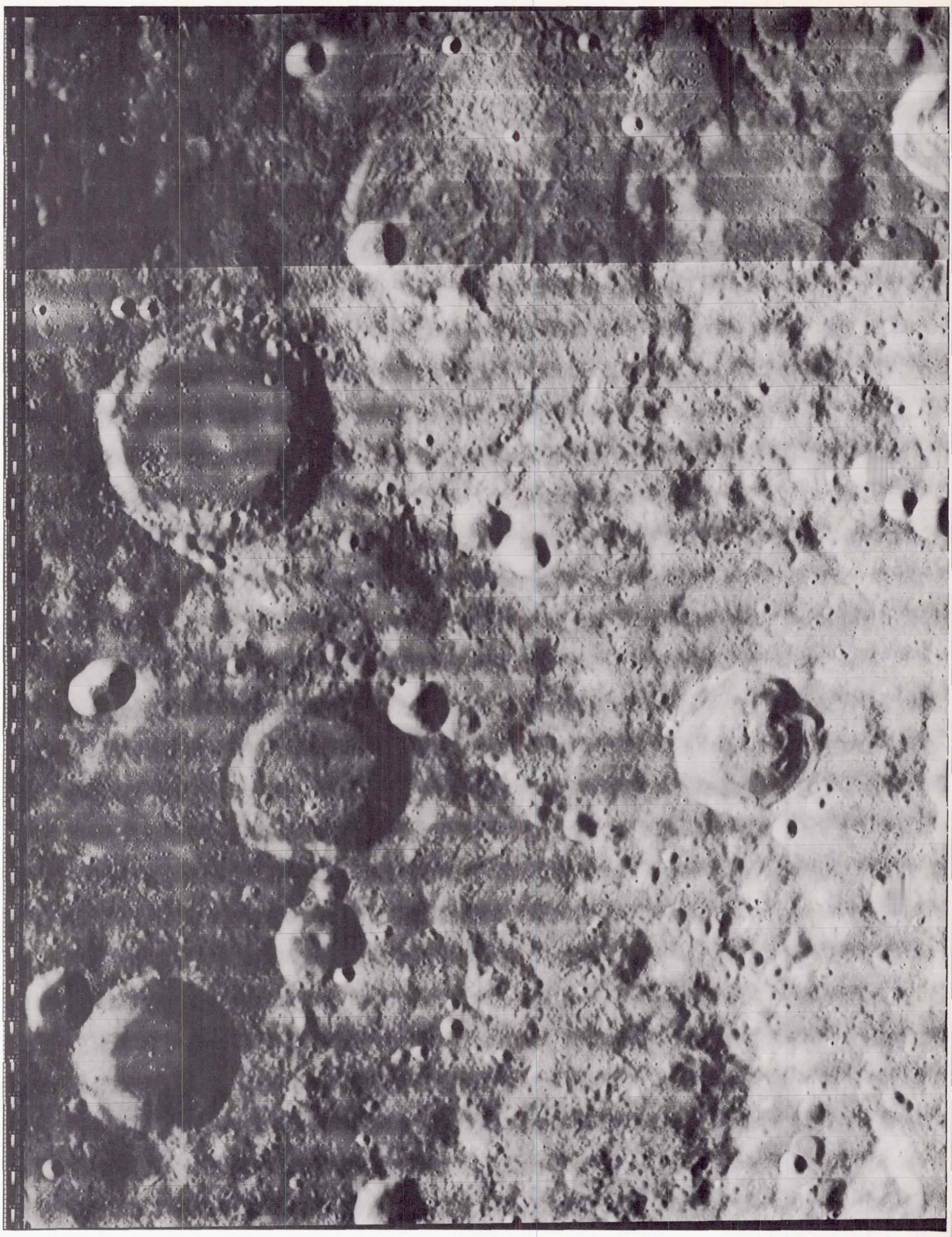
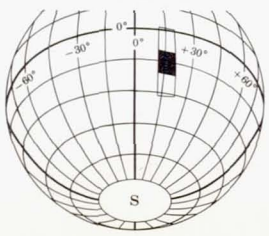



PLATE 312




ABULFEDA ..... C6
ALMANON ..... E10
ANDEL ..... A1
DESCARTES ..... F3
DOLLOND ..... D1
GEBER ..... C14
KAUT ..... M2
TACITUS ..... K10

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-89-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. 16.90 |
| | LAT. −15.09 |
| NORTH DEVIATION (DEG.) ... ..... | 5.85 |
| SUN ANGLE ..... | 68.1 |
| SPACECRAFT ALTITUDE (KM) ..... | 2724.41 |

PLATE 313

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

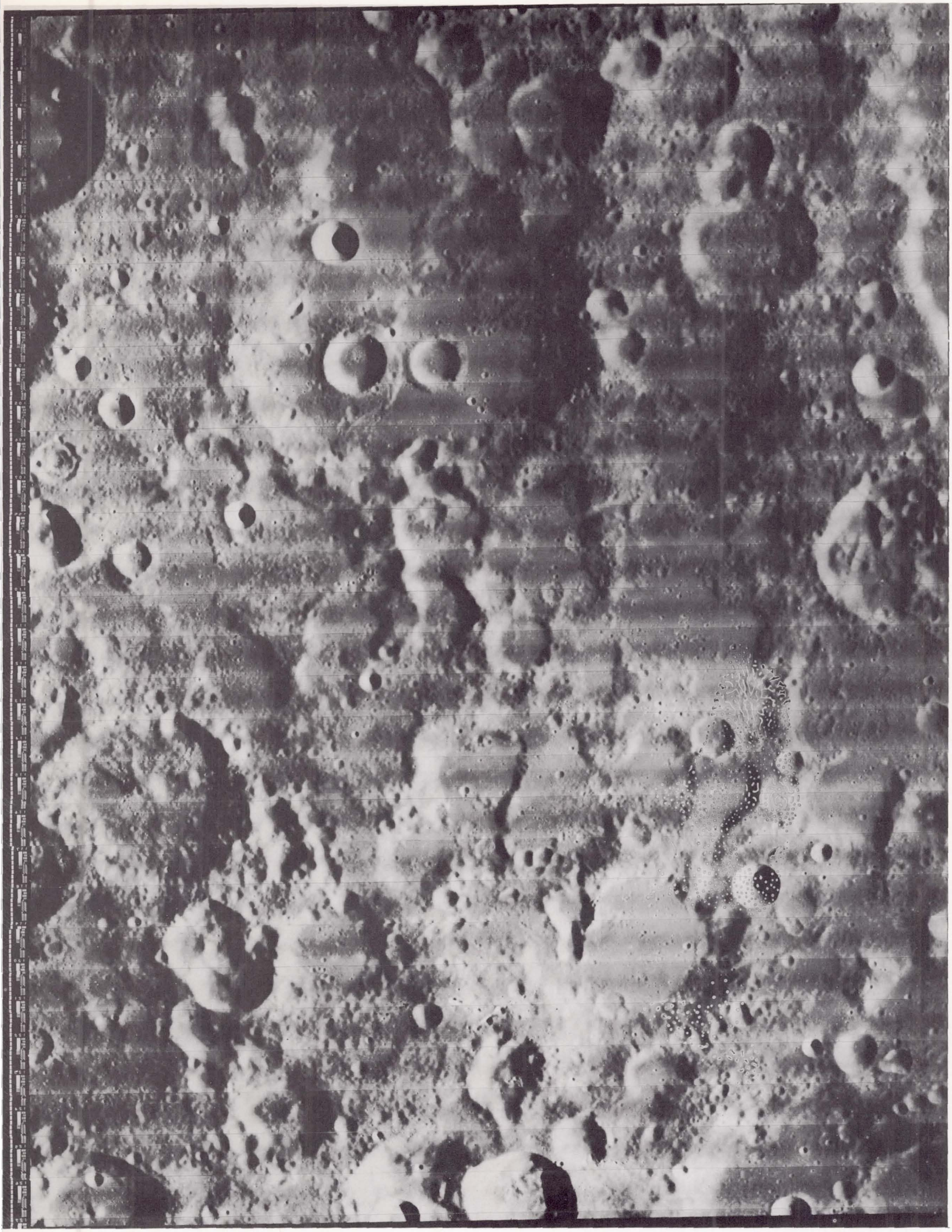


PHOTO NO. IV-89-H1

CENTER COORDINATES ..... LONG. 16.90
LAT. —15.09
NORTH DEVIATION (DEG.) ..... 5.85
SUN ANGLE ..... 68.1
SPACECRAFT ALTITUDE (KM) ..... 2724.41

N

1 CENTIMETER ≈ 11 KILOMETERS

AZOPHI ..... M2
FERMAT ..... C4
PONS ..... A8
PONTANUS ..... L10
PONTANUS C ..... K13
SACROBOSCO ..... H4
WILKINS ..... D13

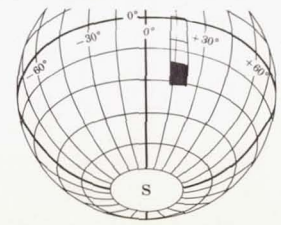
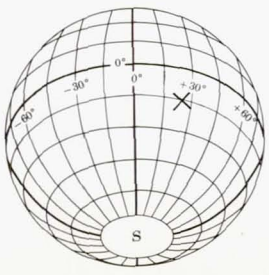



PLATE 314




MARE CRISIUM ..... M4
MARE FECUNDITATIS ..... L7
MARE NECTARIS ..... J8
MARE SERENITATIS ..... G2
MARE TRANQUILLITATIS ..... H4
MARE VAPORUM ..... D3

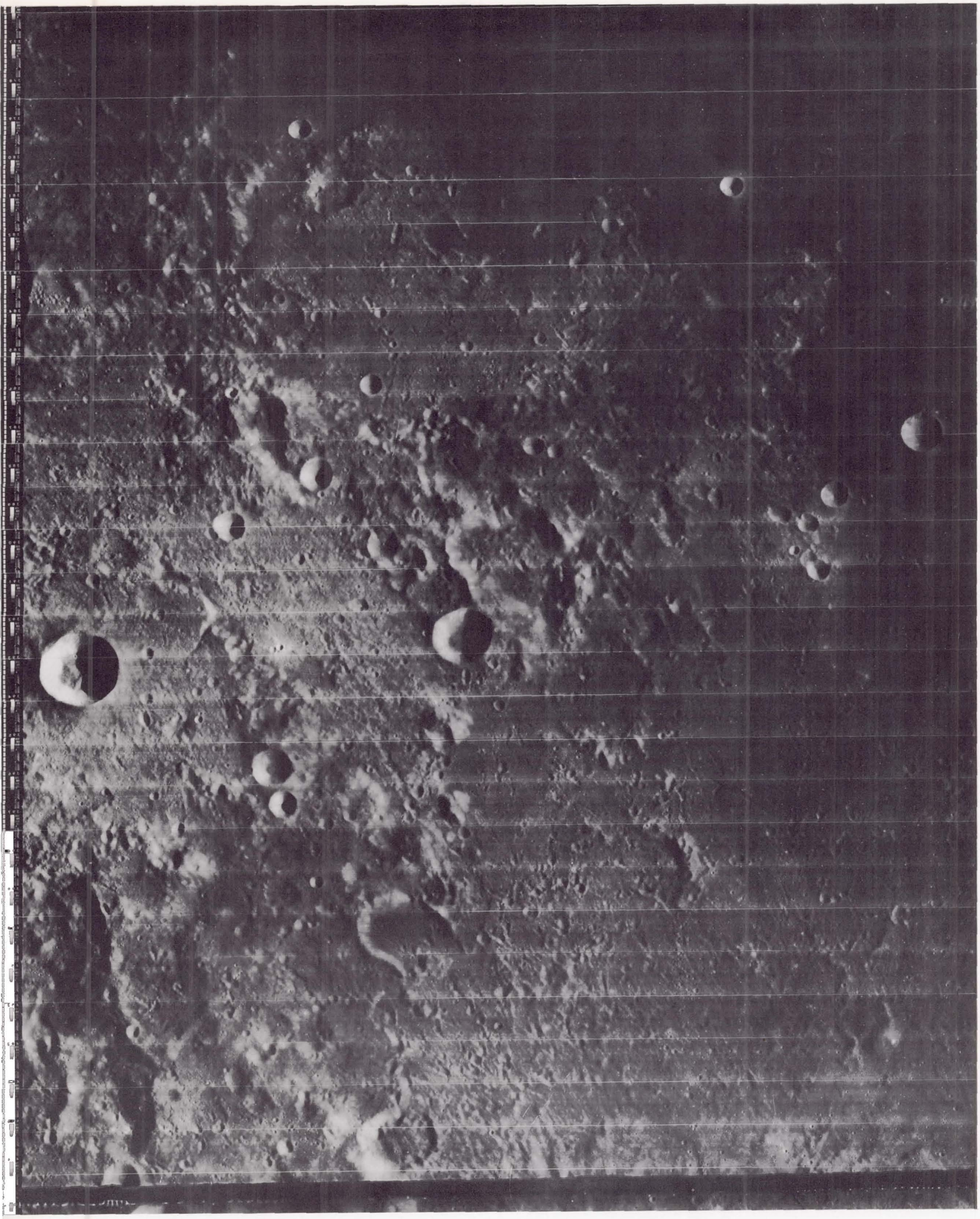
1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-84-M

CENTER COORDINATES ..... LONG. 24.28
LAT. −15.18
NORTH DEVIATION (DEG.) ..... 5.74
SUN ANGLE ..... 66.9
SPACECRAFT ALTITUDE (KM) ..... 2726.78

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-84-H3

CENTER COORDINATES ..... LONG. 24.28
LAT. —15.19
NORTH DEVIATION (DEG.) ..... 5.74
SUN ANGLE ..... 66.9
SPACECRAFT ALTITUDE (KM) ..... 2726.79

N

1 CENTIMETER ≈ 11 KILOMETERS

ALFRAGANUS ..... L8
ZÖLLNER ..... M12

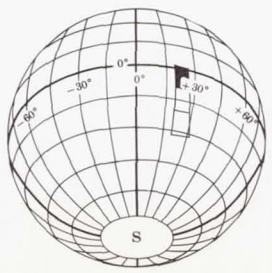
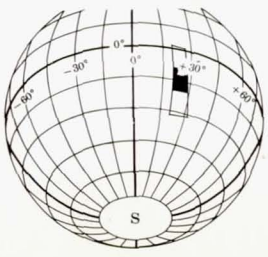



PLATE 316

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CATHERINA .....G13
CATHERINA P ....F11
CYRILLUS ..... H5
CYRILLUS B ..... E3
KANT ..... C1
THEOPHILUS ..... L3

1 CENTIMETER ≈ 11 KILOMETERS

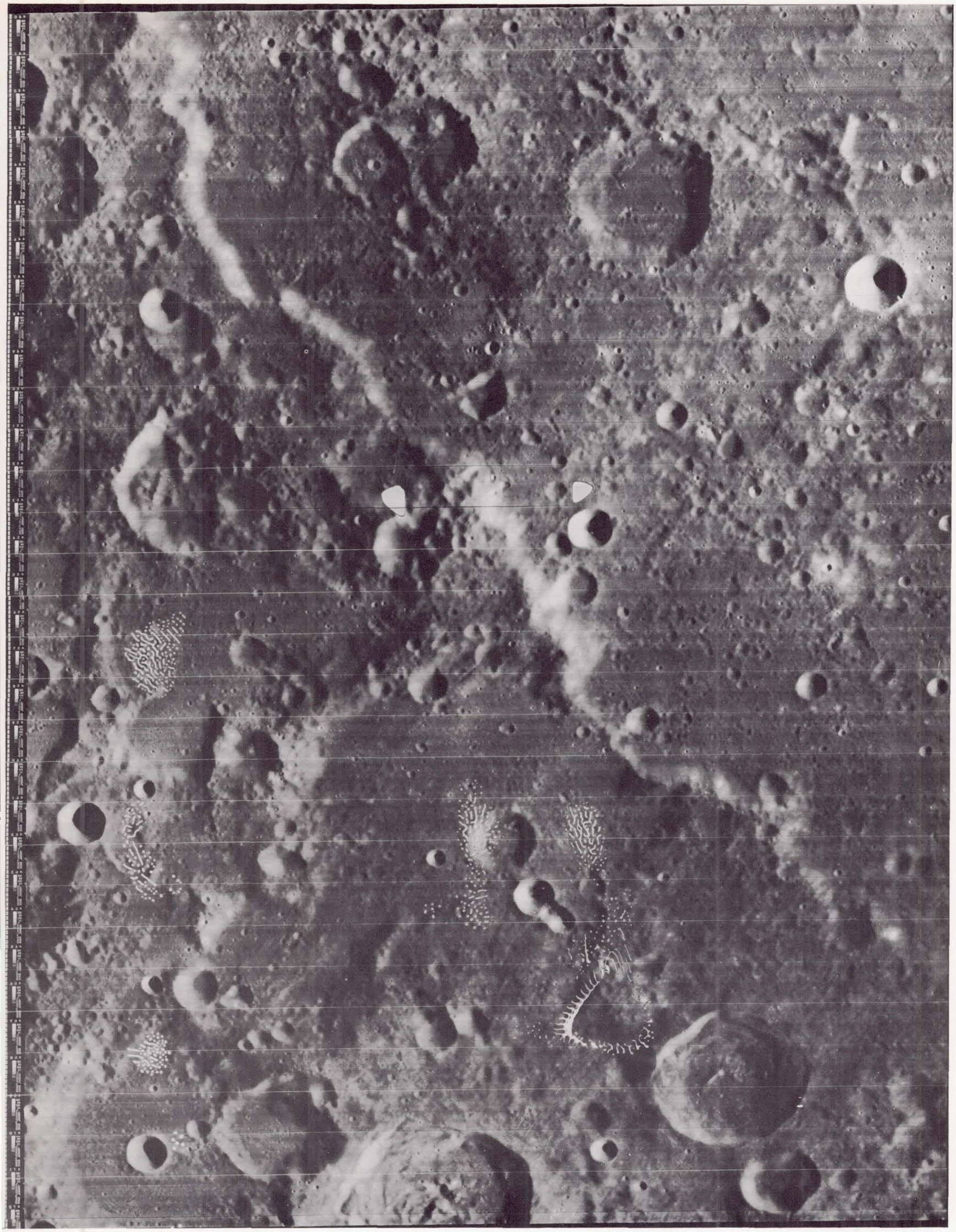
N

PHOTO NO. IV-84-H2

CENTER COORDINATES ..... LONG. 24.28
LAT. −15.19
NORTH DEVIATION (DEG.) ..... 5.74
SUN ANGLE ..... 66.9
SPACECRAFT ALTITUDE (KM) .....2726.79

PLATE 317

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-84-H1

CENTER COORDINATES ..... LONG. 24.28
LAT. —15.19
NORTH DEVIATION (DEG.) ..... 5.74
SUN ANGLE ..... 66.9
SPACECRAFT ALTITUDE (KM) ..... 2726.79

N

1 CENTIMETER ≈ 11 KILOMETERS

LINDENAU ..... G15
POLYBIUS ..... D3
POLYBIUS C ..... G2
POLYBIUS F ..... H2
PONS ..... K6
ROTHMANN ..... C14
ROTHMANN G ..... G10
ZAGUT ..... L15
ZAGUT E ..... J15

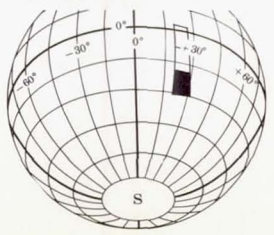
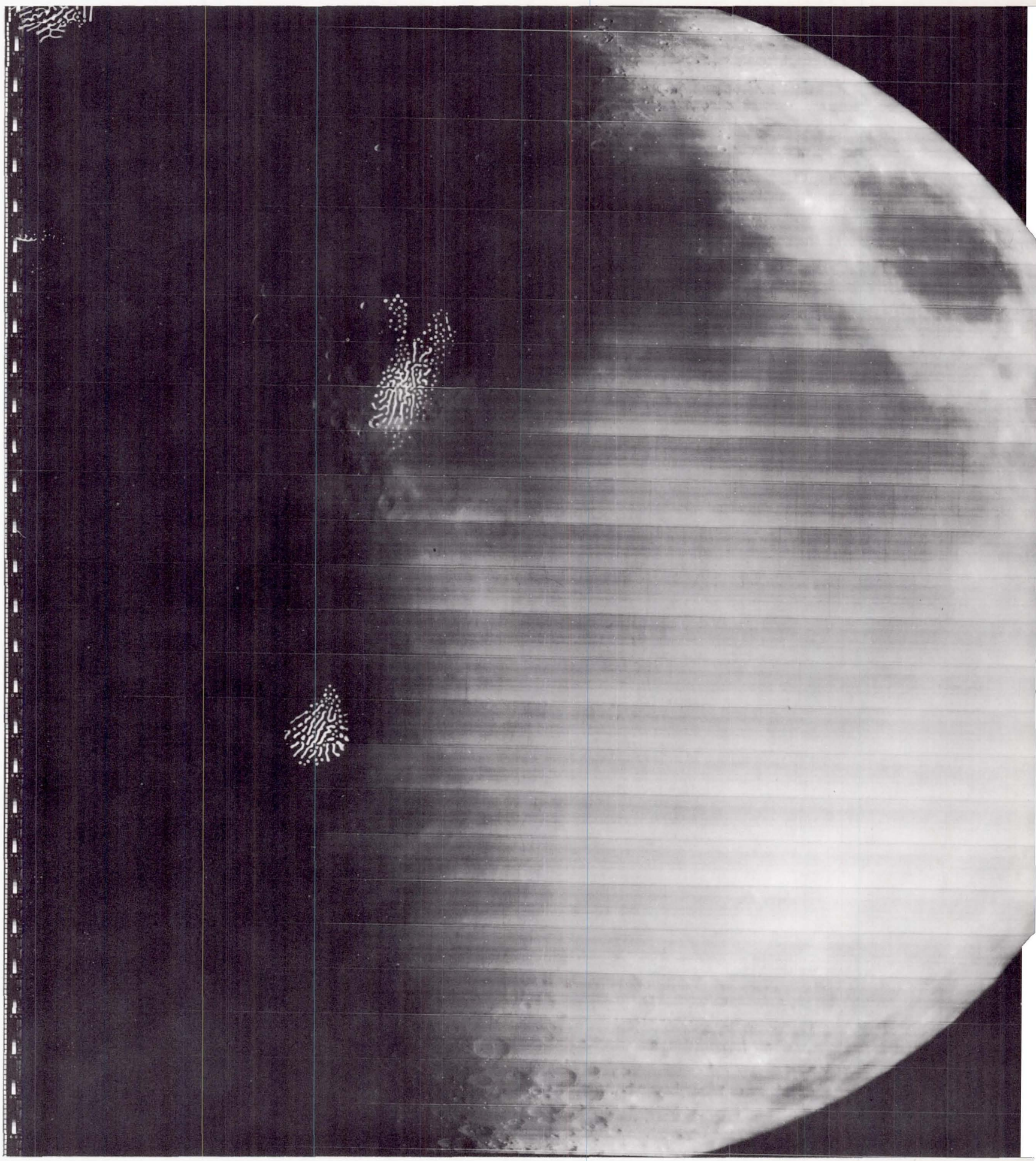
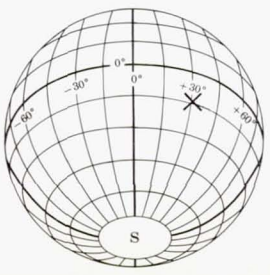



PLATE 318

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... L3
MARE FECUNDITATIS ..... L6
MARE TRANQUILLITATIS .... G4

1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-77-M

CENTER COORDINATES ..... LONG. 30.15
LAT. −14.92
NORTH DEVIATION (DEG.) ..... 5.79
SUN ANGLE ..... 67.1
SPACECRAFT ALTITUDE (KM) ..... 2729.54

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

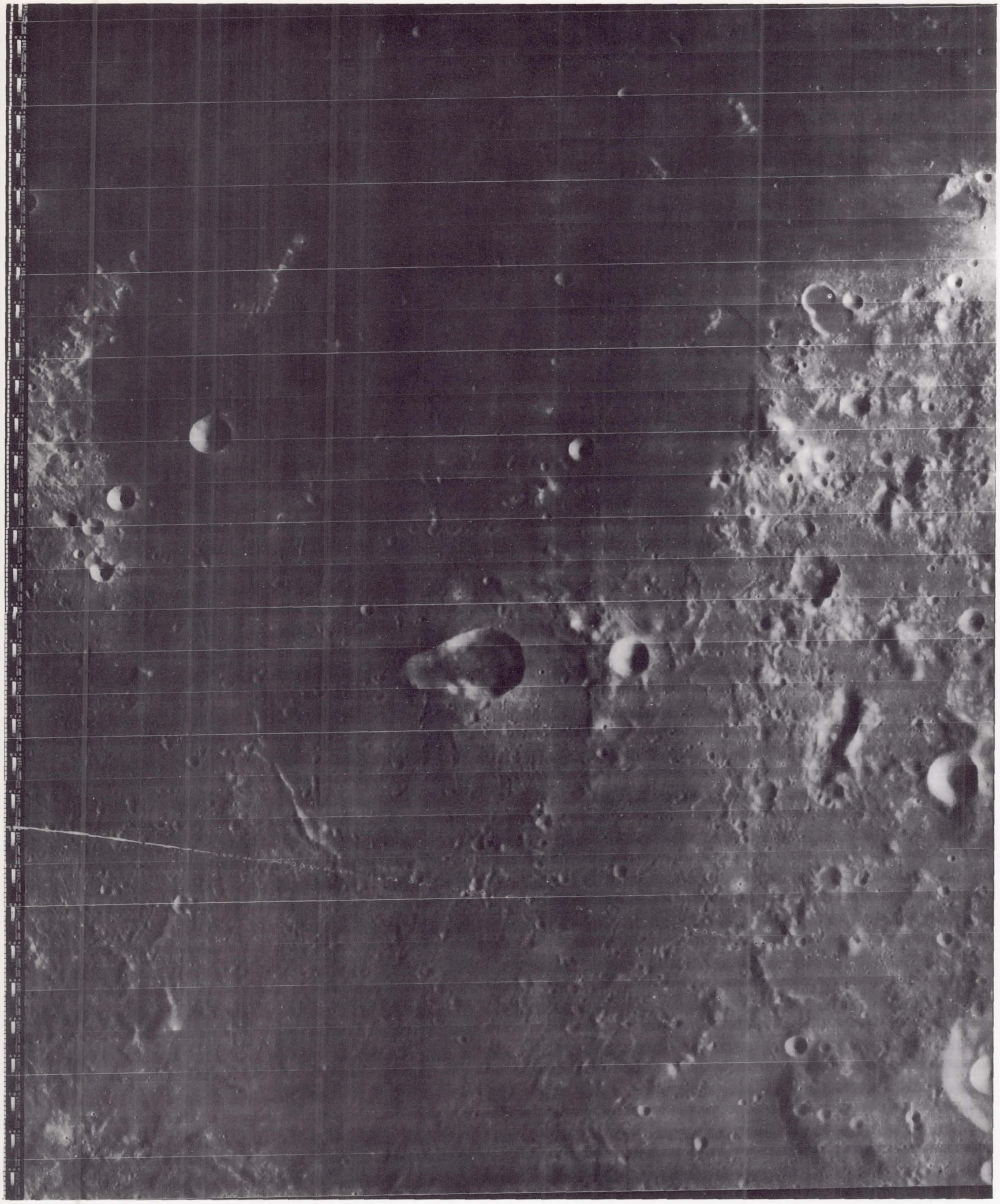


PHOTO NO. IV-77-H3

CENTER COORDINATES ..... LONG. 30.15
LAT. −14.93
NORTH DEVIATION (DEG.) ..... 5.79
SUN ANGLE ..... 67.1
SPACECRAFT ALTITUDE (KM) ..... 2729.55

N

1 CENTIMETER ≈ 11 KILOMETERS

TORRICELLI .... G8

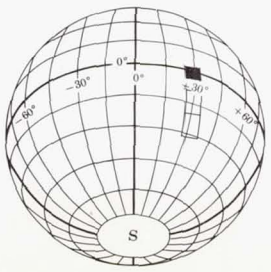
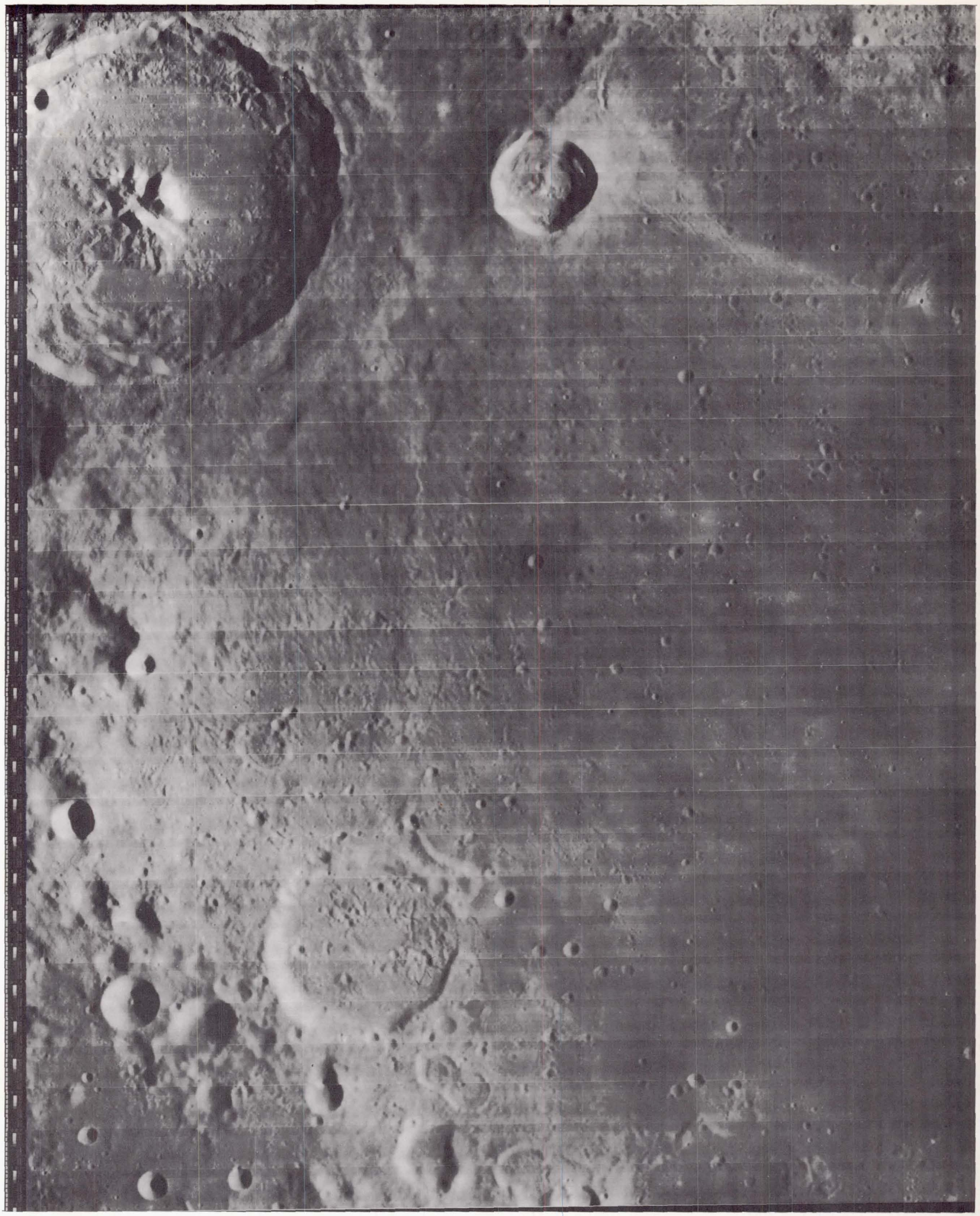
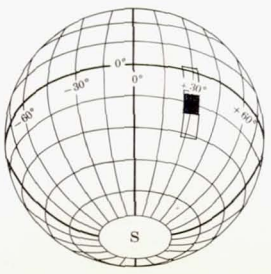



PLATE 320




BEAUMONT ..... E12
MADLER ..... G3
THEOPHILUS ... B3

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-77-H2

CENTER COORDINATES ..... LONG. 30.15
LAT. −14.93
NORTH DEVIATION (DEG.) ..... 5.79
SUN ANGLE ..... 67.1
SPACECRAFT ALTITUDE (KM) ..... 2729.55

PLATE 321

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-77-H1

CENTER COORDINATES ..... LONG. 30.15
LAT. −14.93
NORTH DEVIATION (DEG.) ..... 5.79
SUN ANGLE ..... 67.1
SPACECRAFT ALTITUDE (KM) ..... 2729.55

N

1 CENTIMETER ≈ 11 KILOMETERS

FRACASTORIUS .... C2
PICCOLOMINI ..... F13
ROTHMANN ..... L14

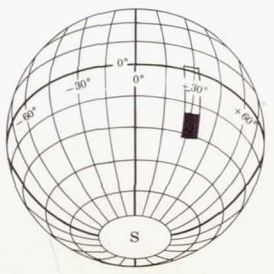
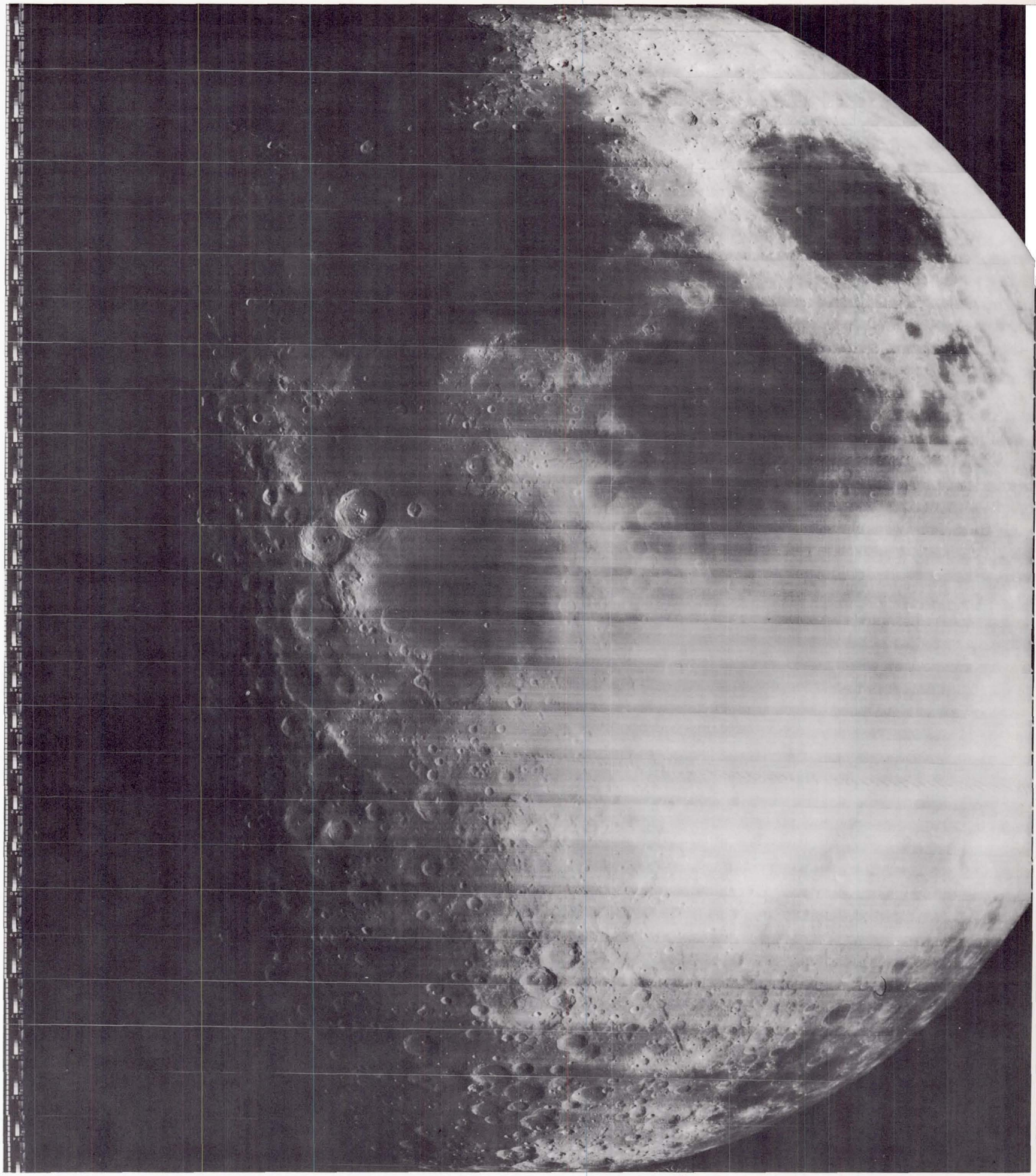
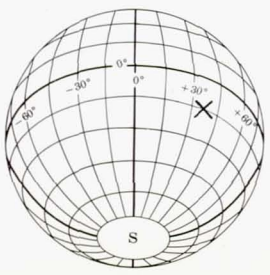



PLATE 322

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... K3
MARE FECUNDITATIS ..... J6
MARE NECTARIS ..... F8
MARE TRANQUILLITATIS ..... F3

1 CENTIMETER≈ 86 KILOMETERS

N

PHOTO NO. IV-72-M

CENTER COORDINATES ..... LONG. 37.86
LAT. −15.76
NORTH DEVIATION (DEG.) ..... 5.45
SUN ANGLE ..... 65.7
SPACECRAFT ALTITUDE (KM) ..... 2732.42

PLATE 323

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-72-H3

CENTER COORDINATES ..... LONG. 37.86
LAT. —15.77
NORTH DEVIATION (DEG.) ..... 5.45
SUN ANGLE ..... 65.7
SPACECRAFT ALTITUDE (KM) ..... 2732.43

N

1 CENTIMETER ≈ 11 KILOMETERS

CAPELLA ..... J11
GUTENBERG ..... A14

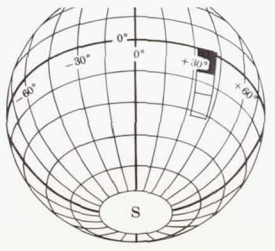
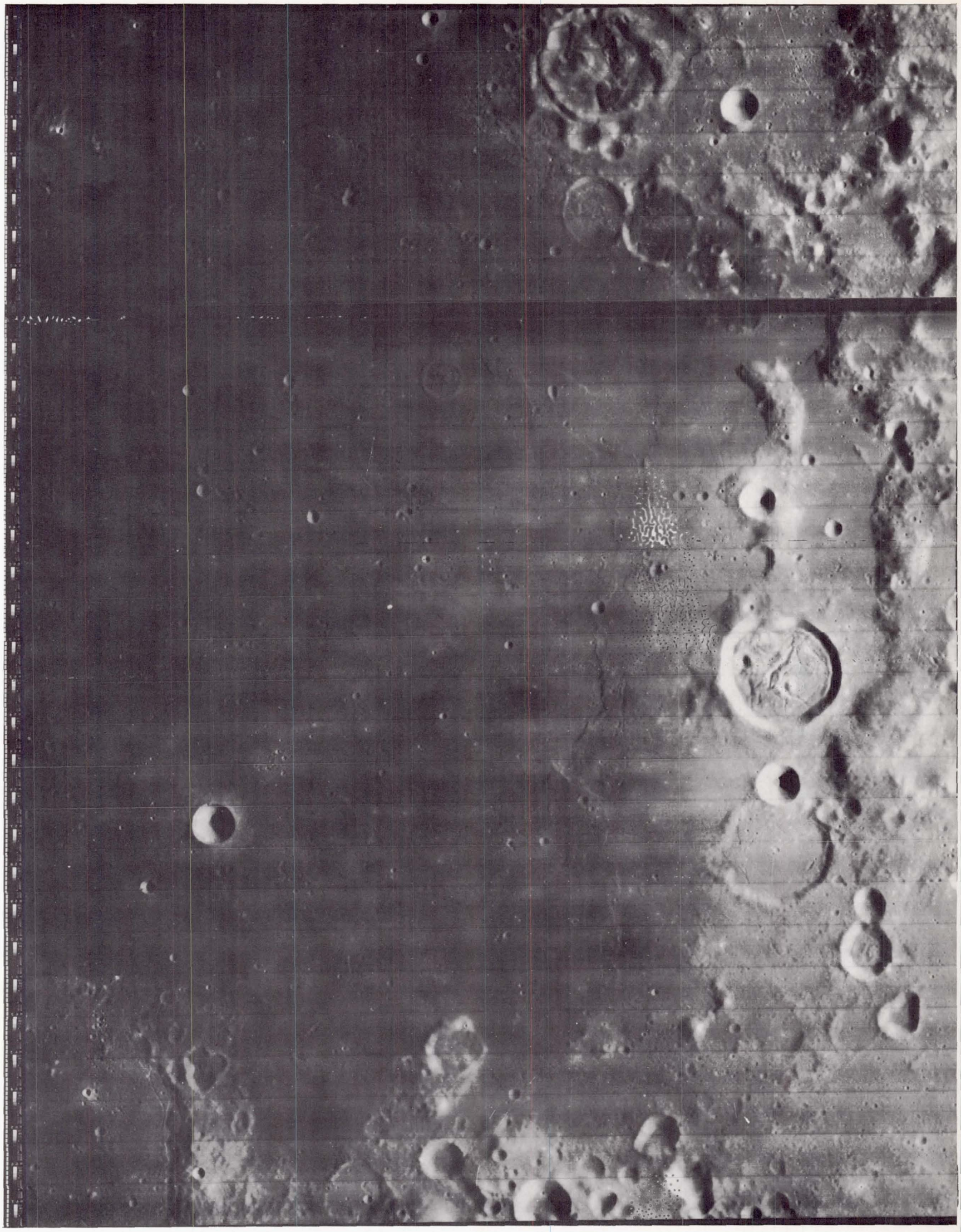
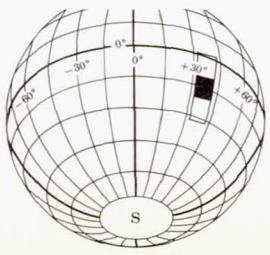



PLATE 324

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BOHNENBERGER ..... K9

1 CENTIMETER ≈ 11 KILOMETERS

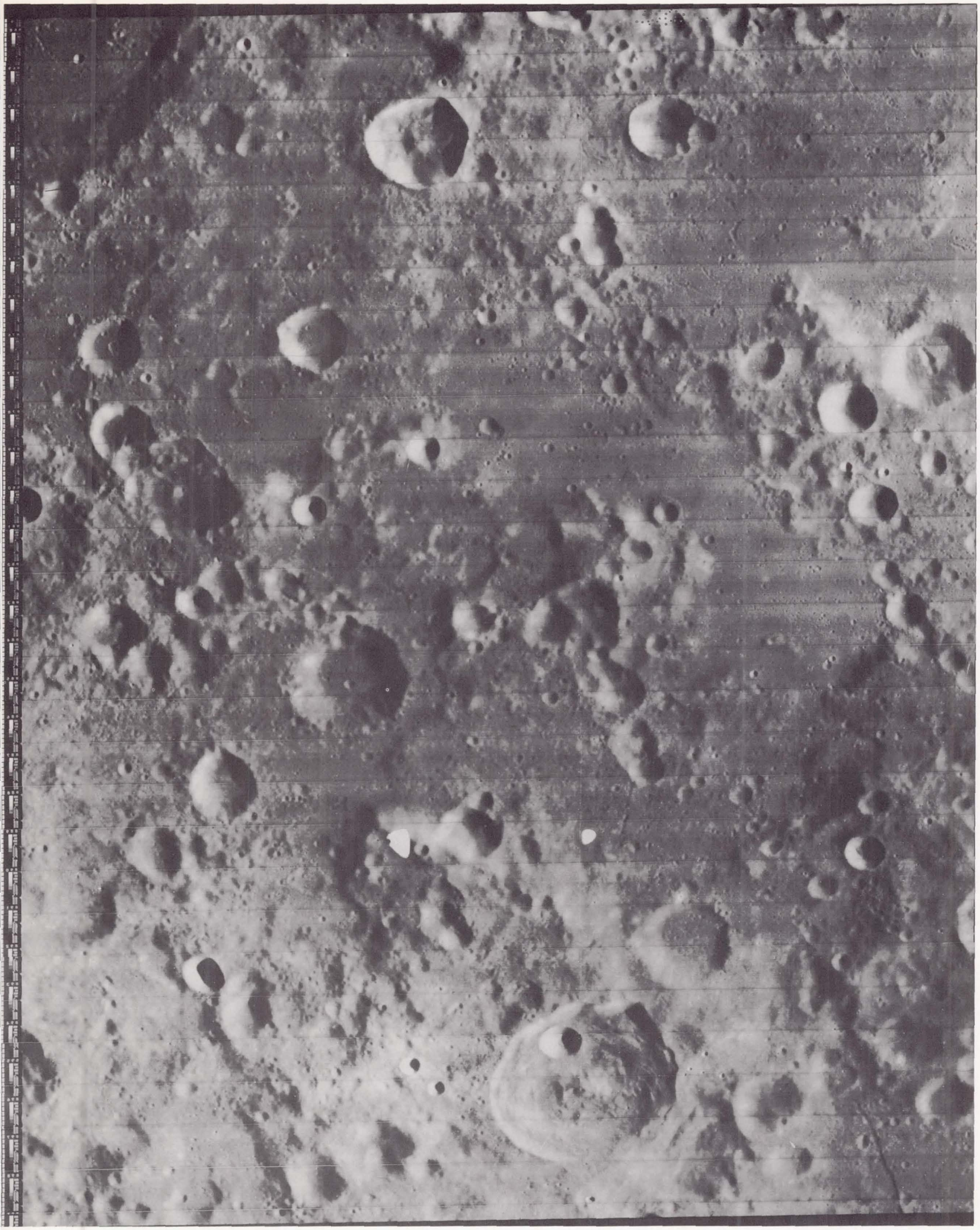
N

PHOTO NO. IV-72-H2

CENTER COORDINATES ..... LONG. 37.86
LAT. −15.77
NORTH DEVIATION (DEG.) ..... 5.45
SUN ANGLE ..... 65.7
SPACECRAFT ALTITUDE (KM) ..... 2732.43

PLATE 325

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-72-H1

CENTER COORDINATES ..... LONG. 37.86
LAT. —15.77
NORTH DEVIATION (DEG.) ..... 5.45
SUN ANGLE ..... 65.7
SPACECRAFT ALTITUDE (KM) ..... 2732.43

N

1 CENTIMETER ≈ 11 KILOMETERS

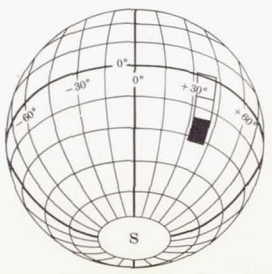
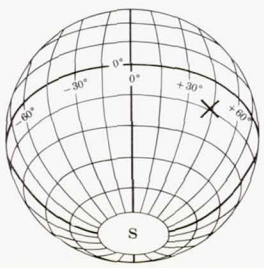



PLATE 326

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 86 KILOMETERS

N

PHOTO NO. IV-65-M

CENTER COORDINATES ..... LONG. 43.30
LAT.—14.90
NORTH DEVIATION (DEG.) ..... 5.57
SUN ANGLE ..... 66.2
SPACECRAFT ALTITUDE (KM) ..... 2735.06

PLATE 327

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

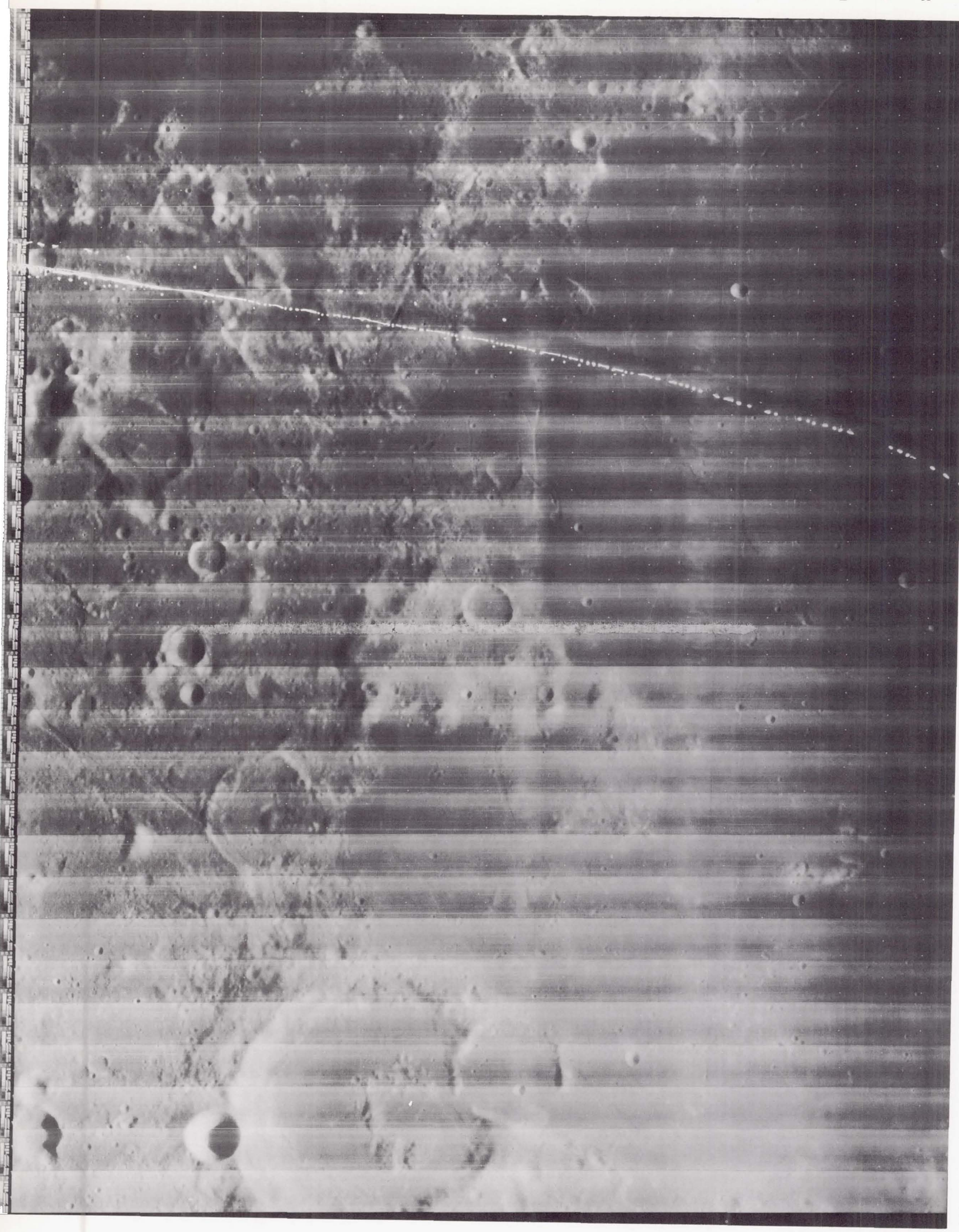


PHOTO NO. IV-65-H3

ENTER COORDINATES ..... LONG. 43.30
LAT. −14.90
ORTH DEVIATION (DEG.) ..... 5.57
N ANGLE ..... 66.2
PACECRAFT ALTITUDE (KM) .....2735.07

N

1 CENTIMETER ≈ 11 KILOMETERS

GUTENBERG ..... H14

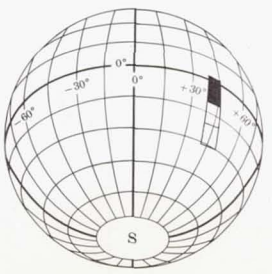
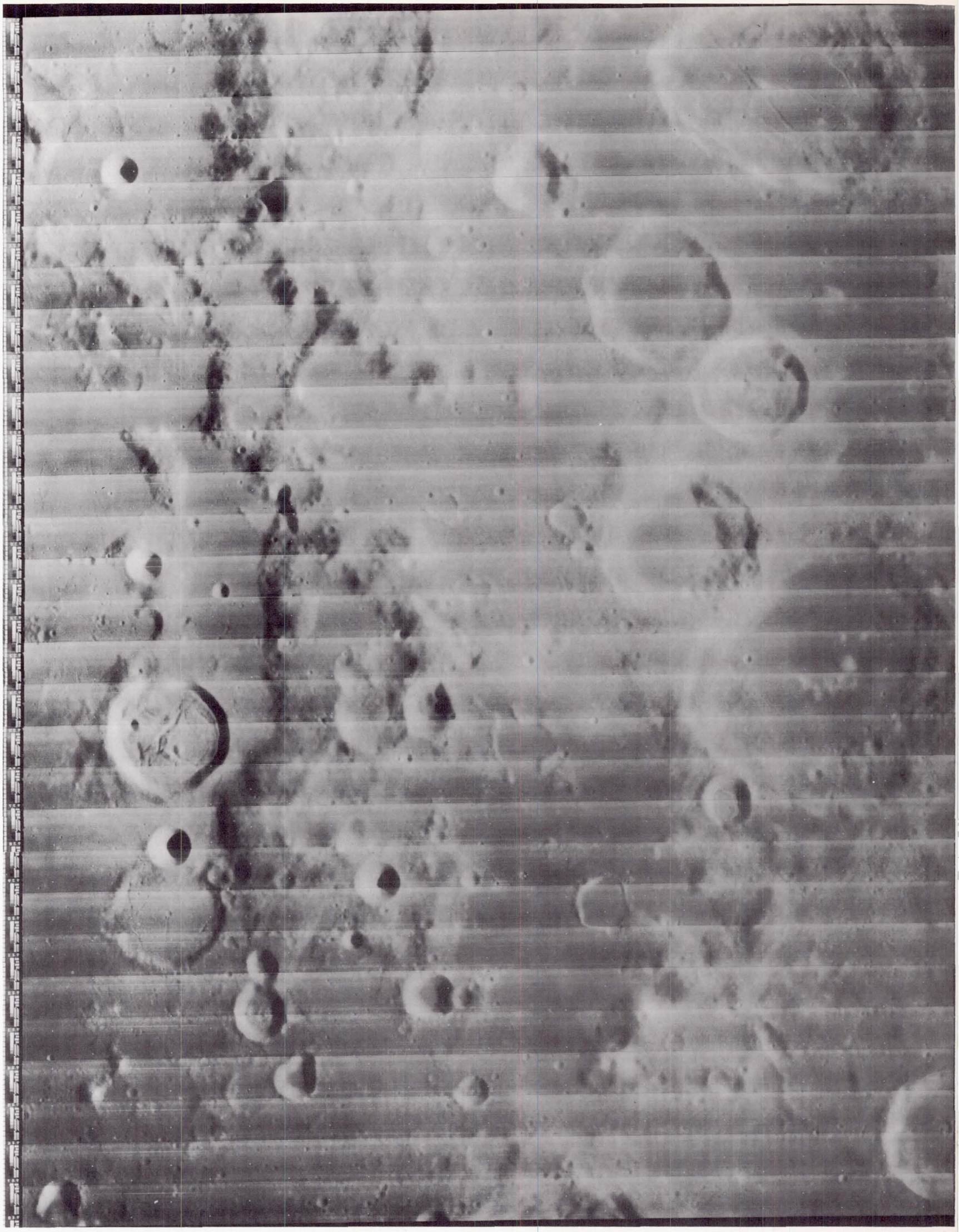
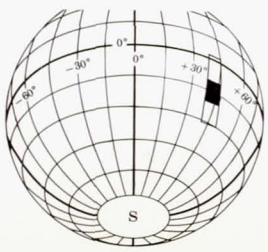



PLATE 328

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






COLOMBO ..... L9
MAGELHAENS ..... J4
MONGE ..... M15
SANTBECH ..... G15

1 CENTIMETER ≈ 11 KILOMETERS

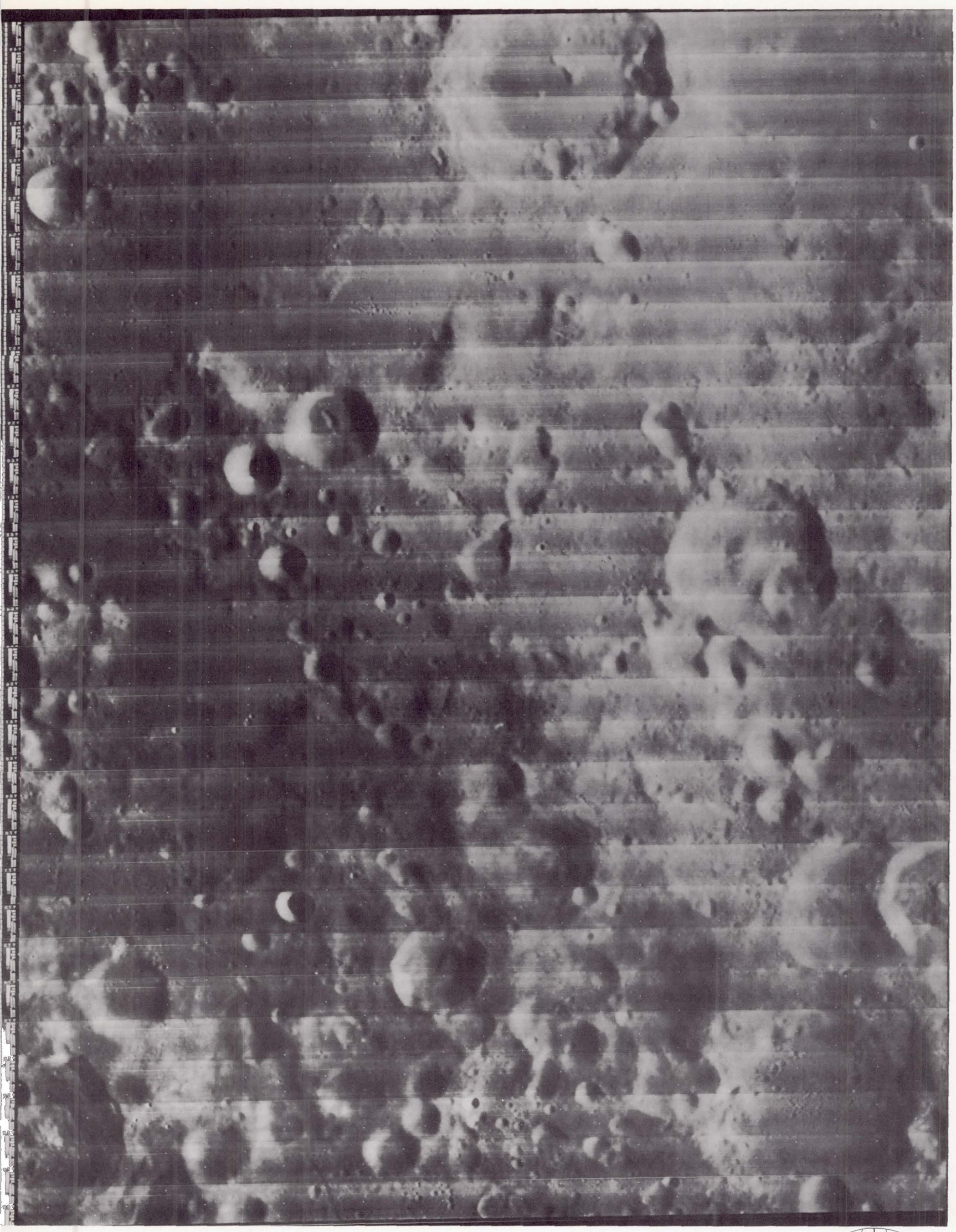
N

PHOTO NO. IV-65-H2

CENTER COORDINATES ..... LONG. 43.30
LAT. −14.90
NORTH DEVIATION (DEG.) ..... 5.57
SUN ANGLE ..... 66.2
SPACECRAFT ALTITUDE (KM) ..... 2735.07

PLATE 329

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-65-H1

CENTER COORDINATES ..... LONG. 43.30
LAT. —14.90
NORTH DEVIATION (DEG.) ..... 5.57
SUN ANGLE ..... 66.2
SPACECRAFT ALTITUDE (KM) ..... 2735.07

N

1 CENTIMETER ≈ 11 KILOMETERS

BORDA ..... C7
REICHENBACH ..... B14
SANTBECH ..... E1

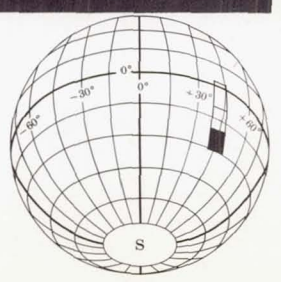
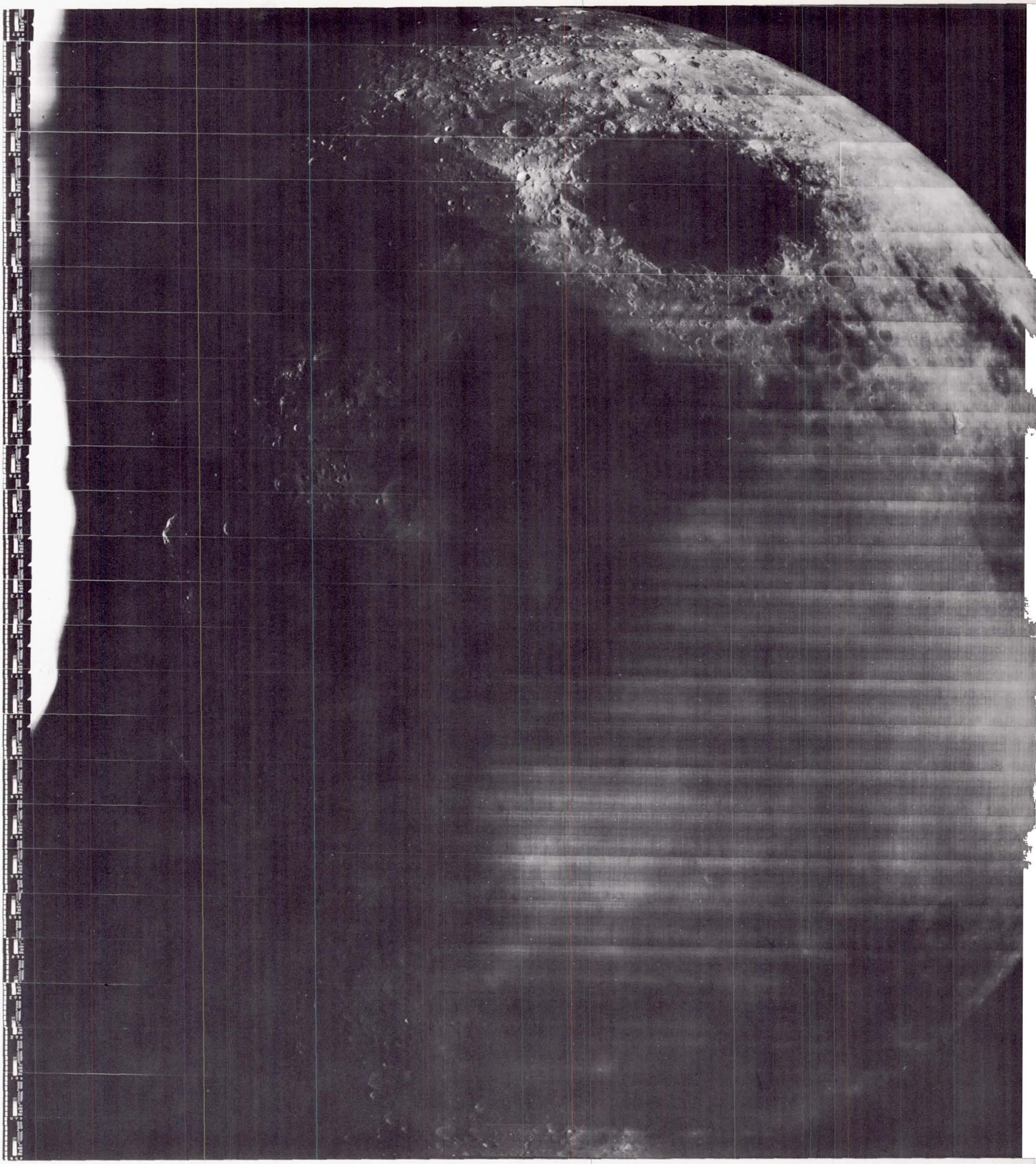
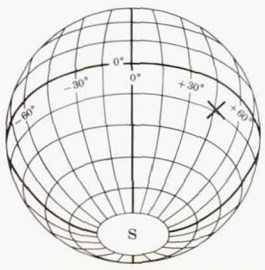



PLATE 330

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... H3
MARE FECUNDITATIS ..... J8

1 CENTIMETER ≈ 87 KILOMETERS

N

PHOTO NO. IV-60-M

CENTER COORDINATES ..... LONG. 48.79
LAT. −13.58
NORTH DEVIATION (DEG.) ..... 5.89
SUN ANGLE ..... 66.7
SPACECRAFT ALTITUDE (KM) ..... 2737.76

PLATE 331

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

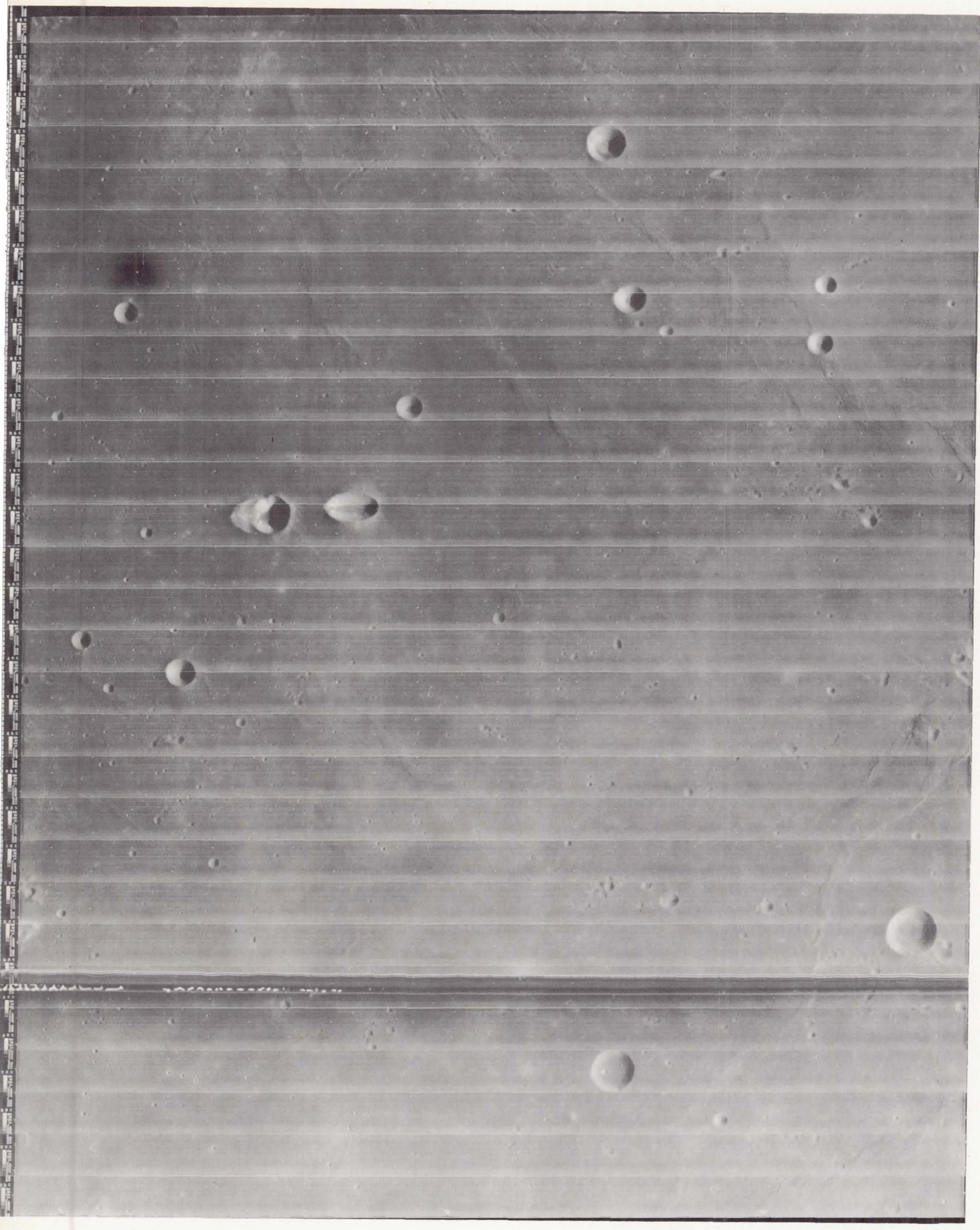


PHOTO NO. IV-60-H3

ENTER COORDINATES ..... LONG. 48.79
LAT. —13.58
ORTH DEVIATION (DEG.) ..... 5.89
UN ANGLE ..... 66.7
PACECRAFT ALTITUDE (KM) ..... 2737.76

N

1 CENTIMETER ≈ 11 KILOMETERS

MESSIER ..... H7

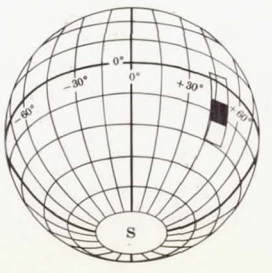
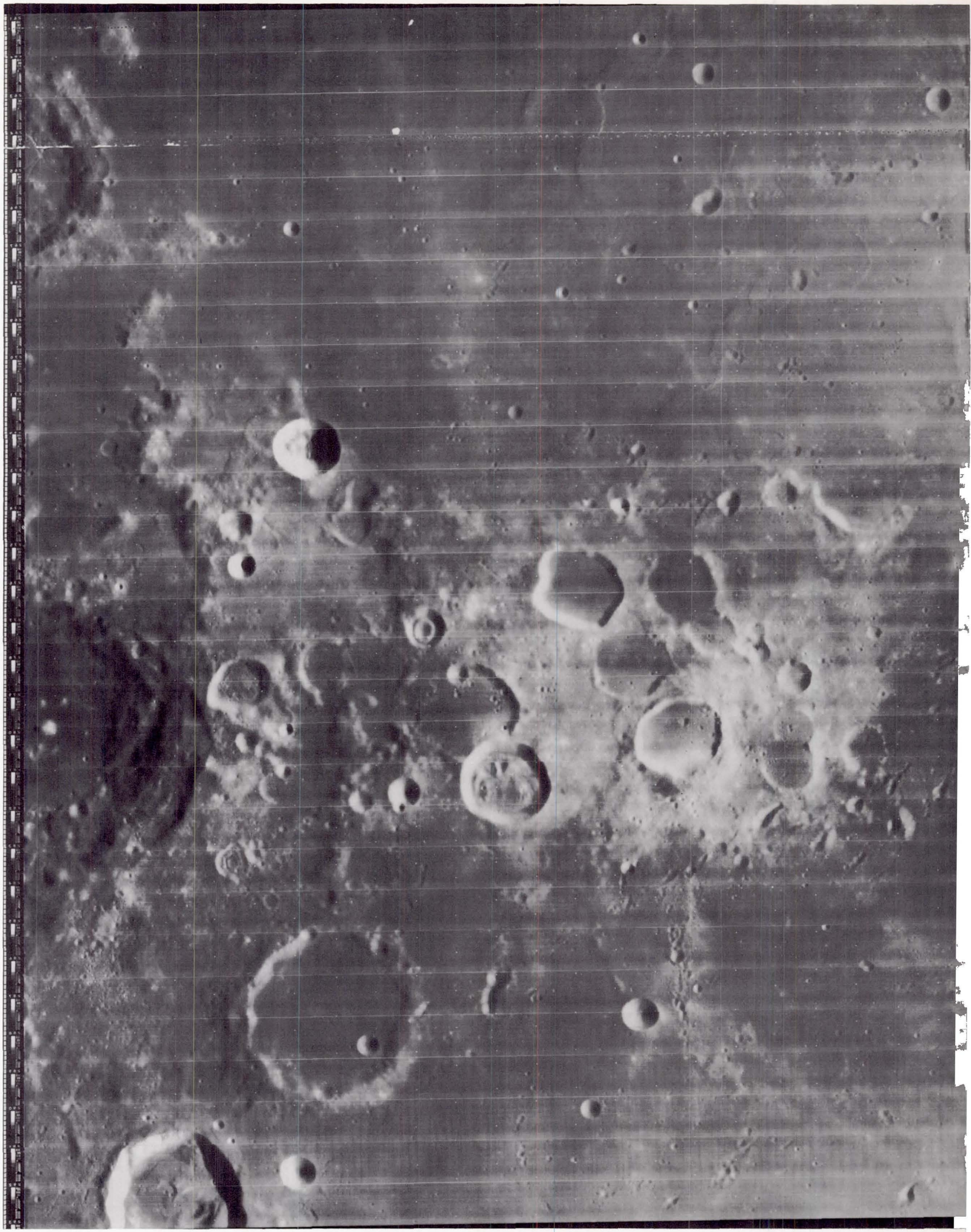
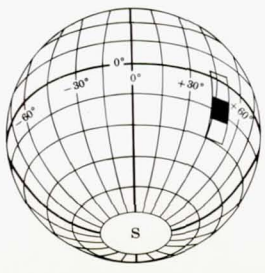



PLATE 332






COLOMBO ..... A9
COOK ..... D13
CROZIER ..... H8
GOCLENIUS ..... A2
MAGELHAENS ..... A6
MONGE ..... C15

1 CENTIMETER ≈ 11 KILOMETERS

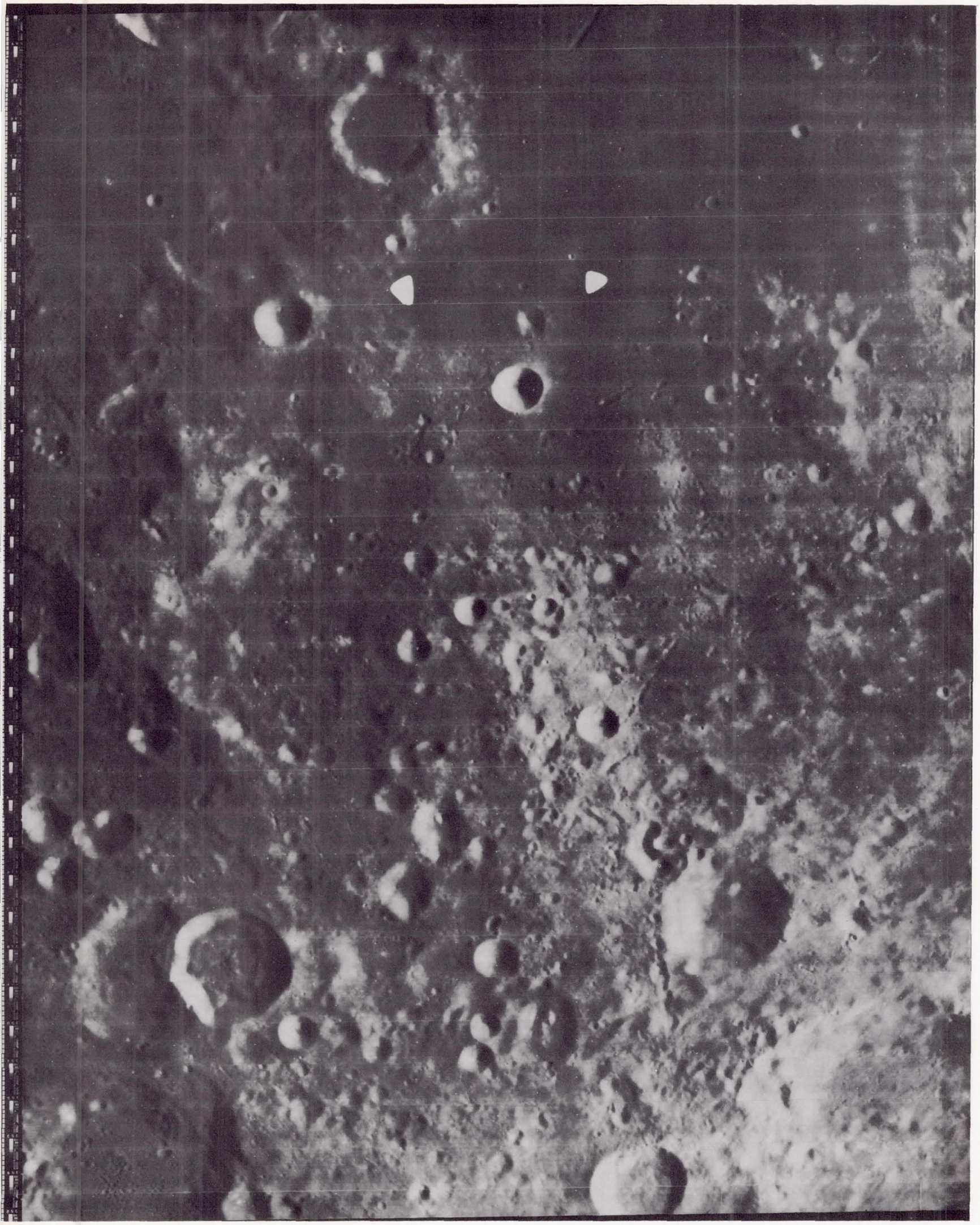
N

PHOTO NO. IV-60-H2

CENTER COORDINATES ..... LONG. 48.7°
LAT. −13.5°
NORTH DEVIATION (DEG.) ..... 5.8°
SUN ANGLE ..... 66.
SPACECRAFT ALTITUDE (KM) ..... 2737.7

PLATE 333

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-60-H1

CENTER COORDINATES ..... LONG. 48.79
LAT. —13.58
NORTH DEVIATION (DEG.) ..... 5.89
SUN ANGLE ..... 66.7
SPACECRAFT ALTITUDE (KM) .... 2737.76

N

1 CENTIMETER ≈ 11 KILOMETERS

SNELLIUS ..... B14
REICHENBACH .... L15

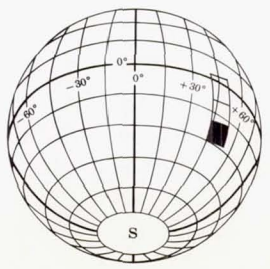
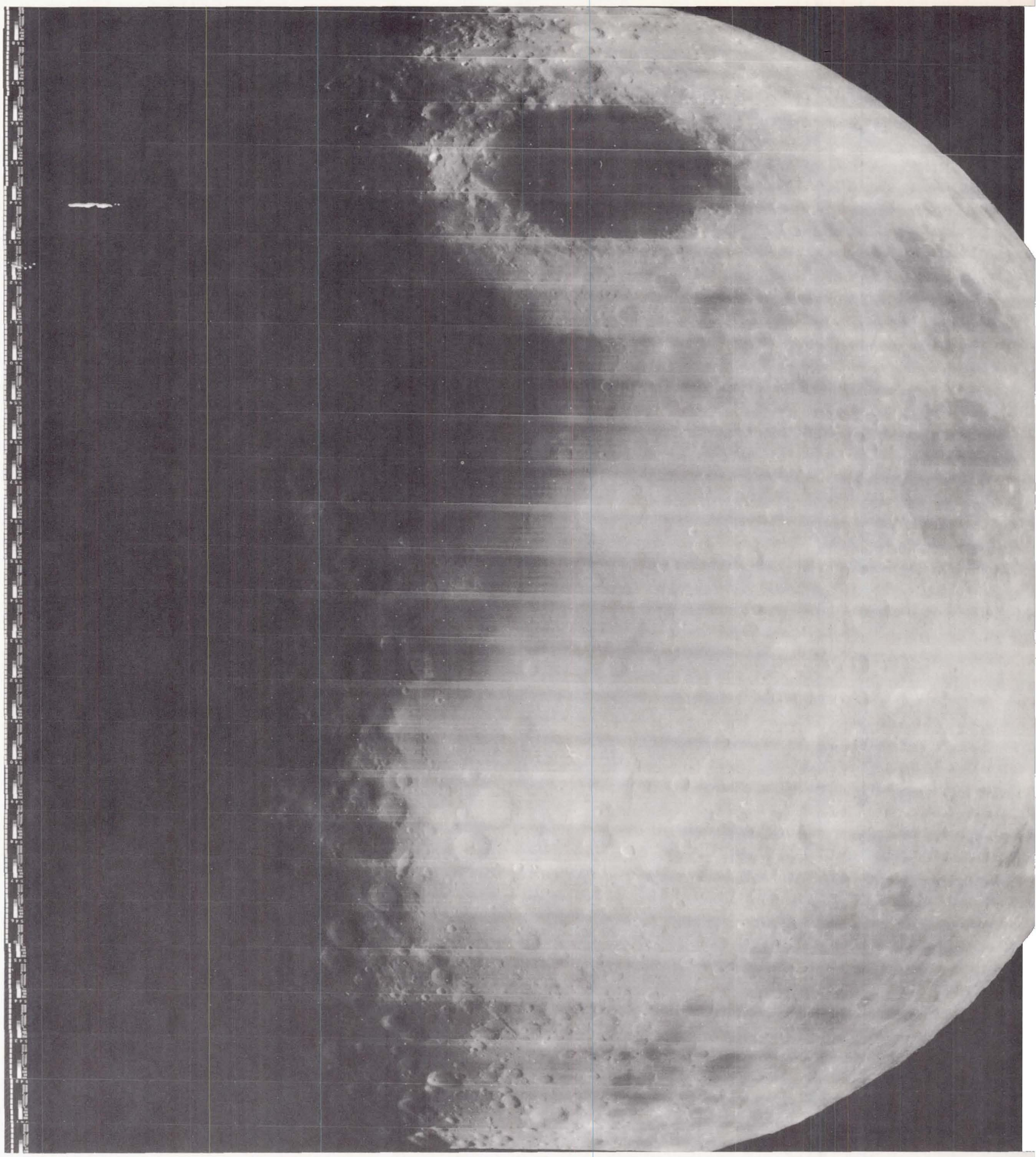
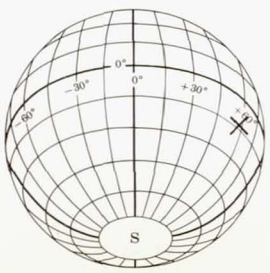



PLATE 334






MARE CRISIUM ..... L3
MARE FECUNDITATIS ..... L6
MARE SERENITATIS ..... G2

1 CENTIMETER ≈ 87 KILOMETERS

N

PHOTO NO. IV-53-M

CENTER COORDINATES ..... LONG. 56.82
LAT. −14.81
NORTH DEVIATION (DEG.) ..... 5.63
SUN ANGLE ..... 65.0
SPACECRAFT ALTITUDE (KM) ..... 2740.22

PLATE 335

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

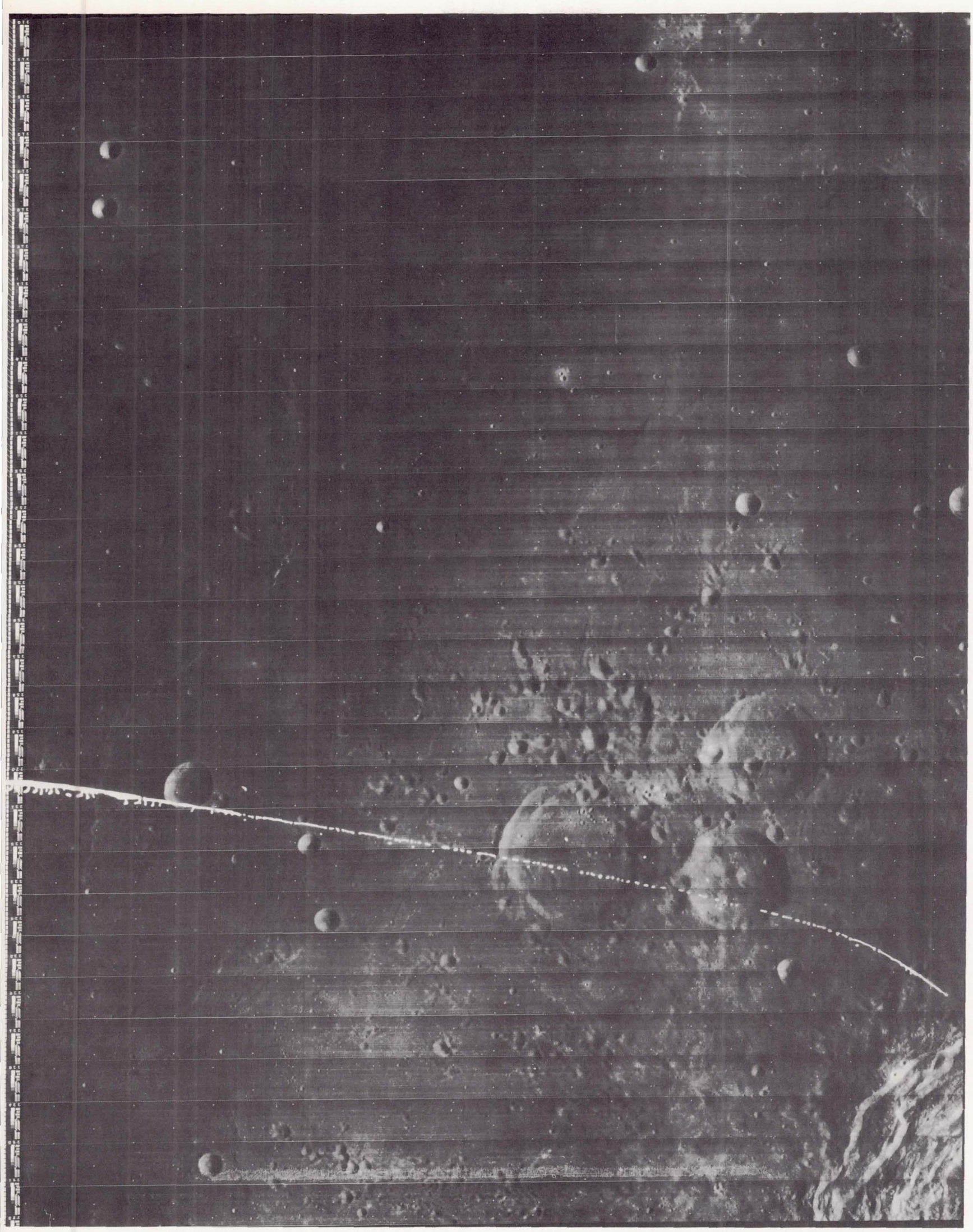


PHOTO NO. IV-53-H3

CENTER COORDINATES ..... LONG. 56.82
LAT. —14.82
NORTH DEVIATION (DEG.) ..... 5.63
SUN ANGLE ..... 65.0
SPACECRAFT ALTITUDE (KM) ..... 2740.23

N

1 CENTIMETER ≈ 11 KILOMETERS

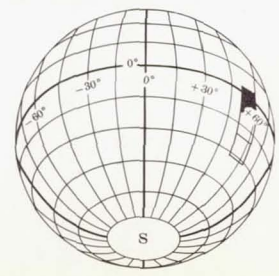
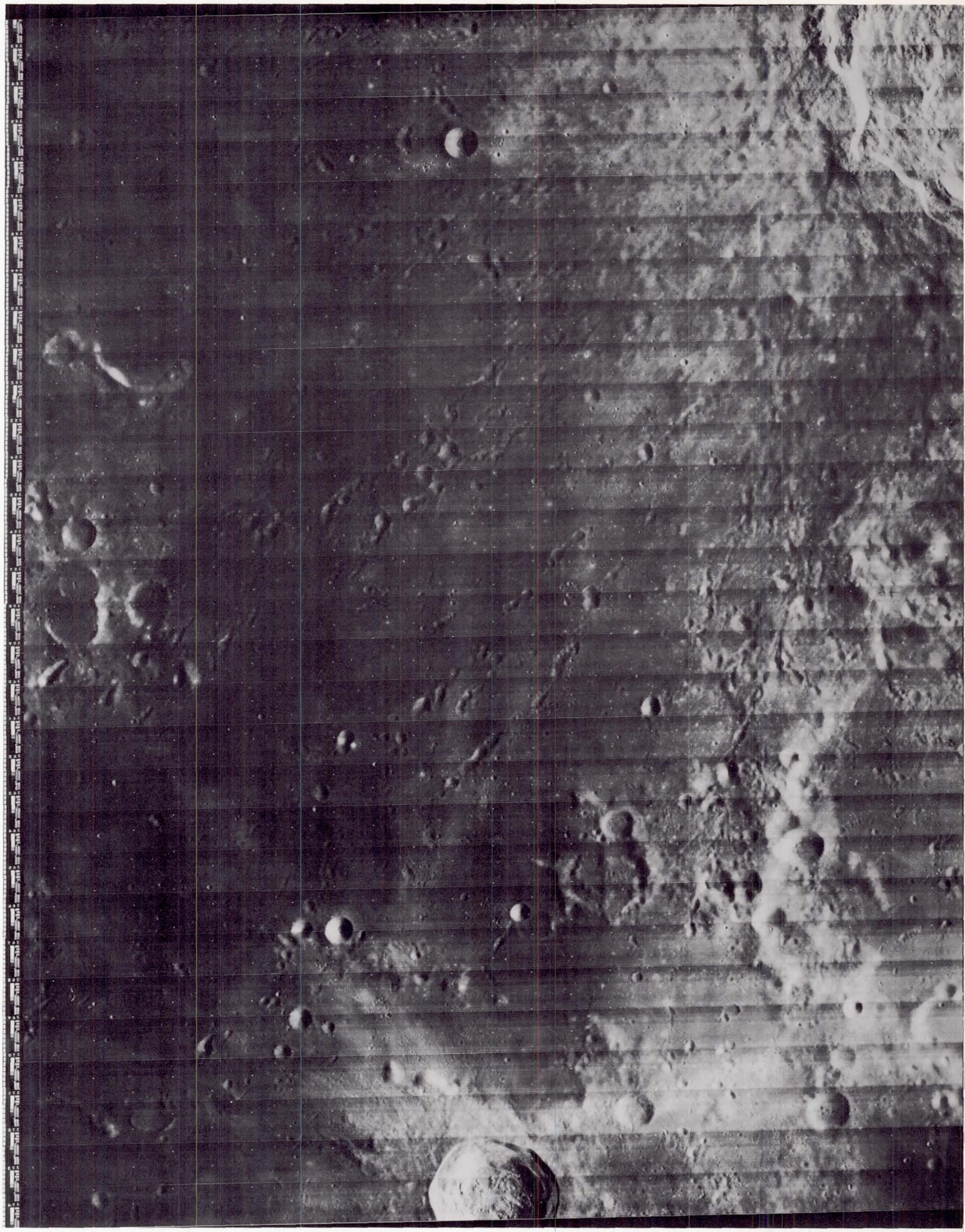
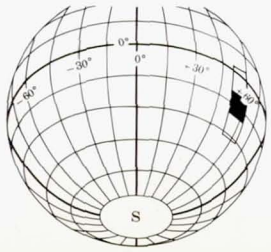



PLATE 336

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HOLDEN ..... L14
LANGRENUS ..... M1
LOHSE ..... M7
VENDELINUS .... M10

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-53-H2

CENTER COORDINATES ..... LONG. 56.82
LAT. —14.82
NORTH DEVIATION (DEG.) ..... 5.63
SUN ANGLE ..... 65.0
SPACECRAFT ALTITUDE (KM) ..... 2740.23

PLATE 337

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

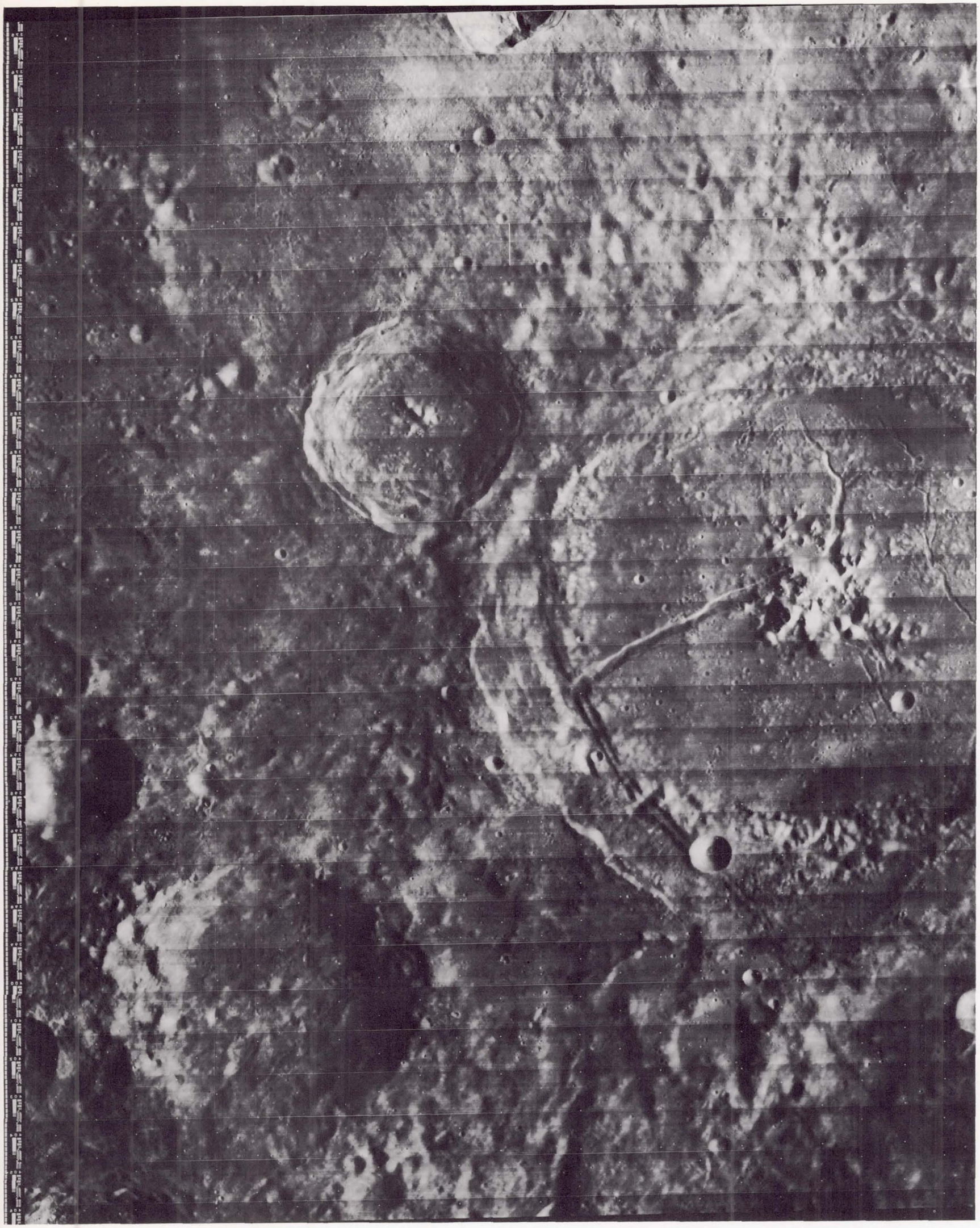


PHOTO NO. IV-53-H1

CENTER COORDINATES ..... LONG. 56.82
LAT. −14.82
NORTH DEVIATION (DEG.) ..... 5.63
SUN ANGLE ..... 65.0
SPACECRAFT ALTITUDE (KM) ..... 2740.23

N

1 CENTIMETER≈ 11 KILOMETERS

HASE ..... A13
PETAVIUS ..... C7
SNELLIUS ..... J12
WROTTESLEY .... G5

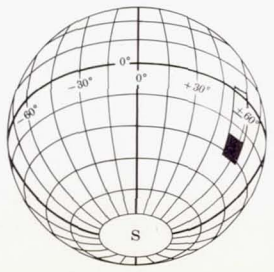
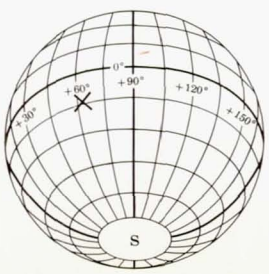



PLATE 338

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 87 KILOMETERS

N

PHOTO NO. IV-46-M

CENTER COORDINATES ..... LONG. 63.40
LAT. −14.80
NORTH DEVIATION (DEG.) ..... 4.84
SUN ANGLE ..... 64.5
SPACECRAFT ALTITUDE (KM) ..... 2742.60

PLATE 339

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

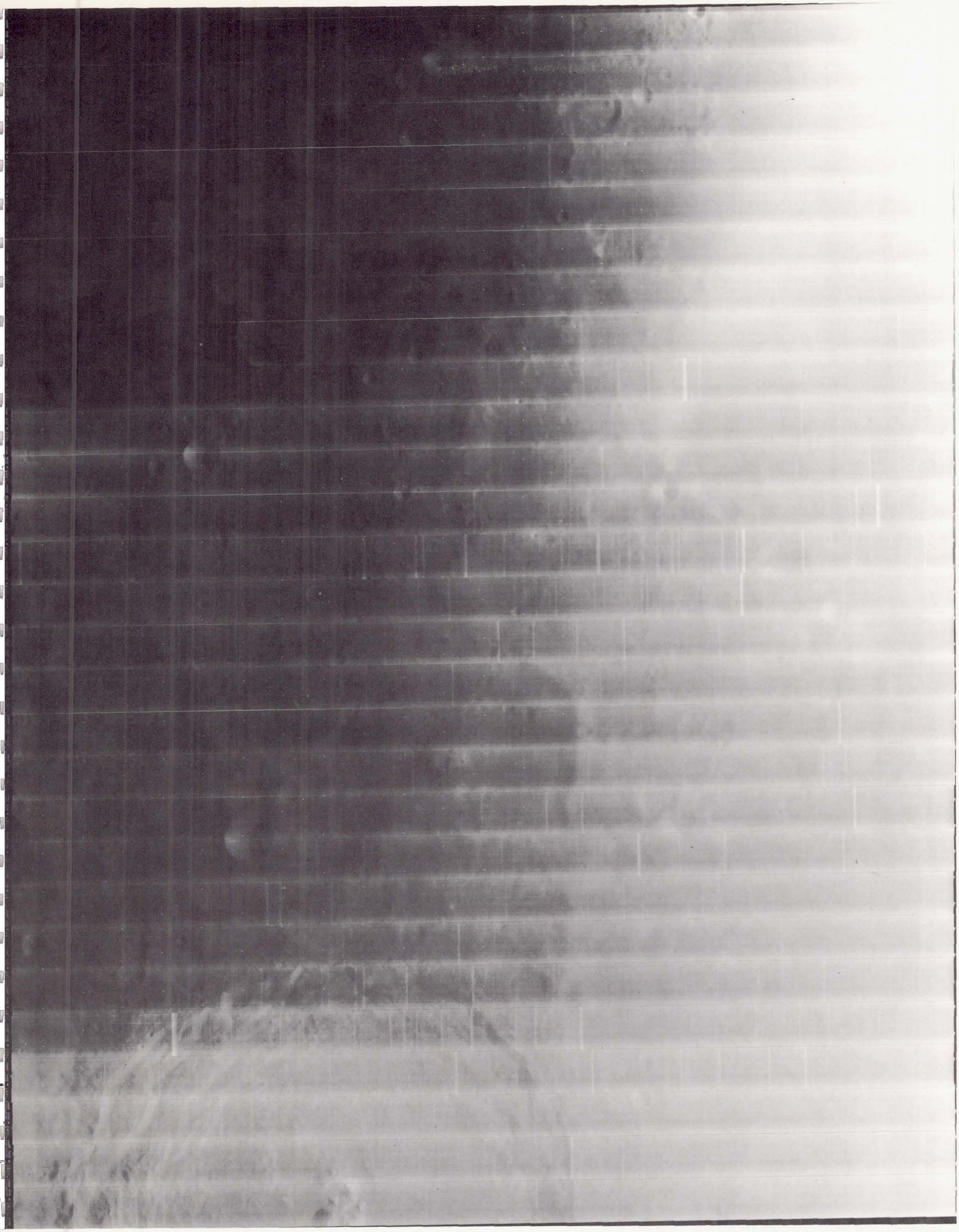


PHOTO NO. IV-46-H3

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | 63.40 |
| | LAT. | −14.81 |
| NORTH DEVIATION (DEG.) | | 4.84 |
| SUN ANGLE | | 64.5 |
| SPACECRAFT ALTITUDE (KM) | | 2742.61 |

N

1 CENTIMETER ≈ 11 KILOMETERS

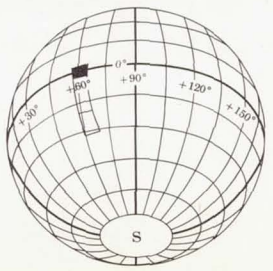
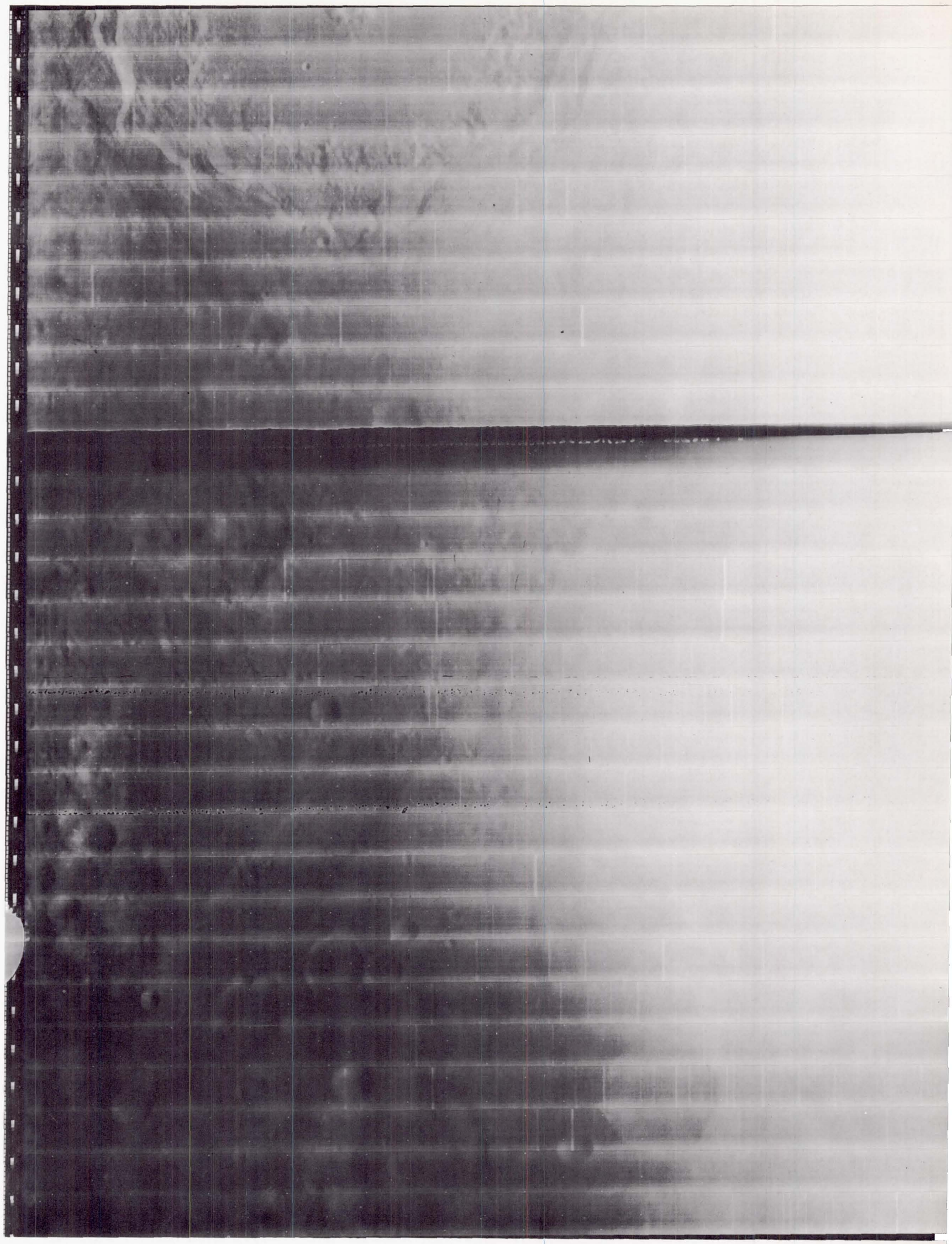
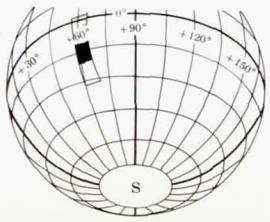



PLATE 340

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 11 KILOMETERS

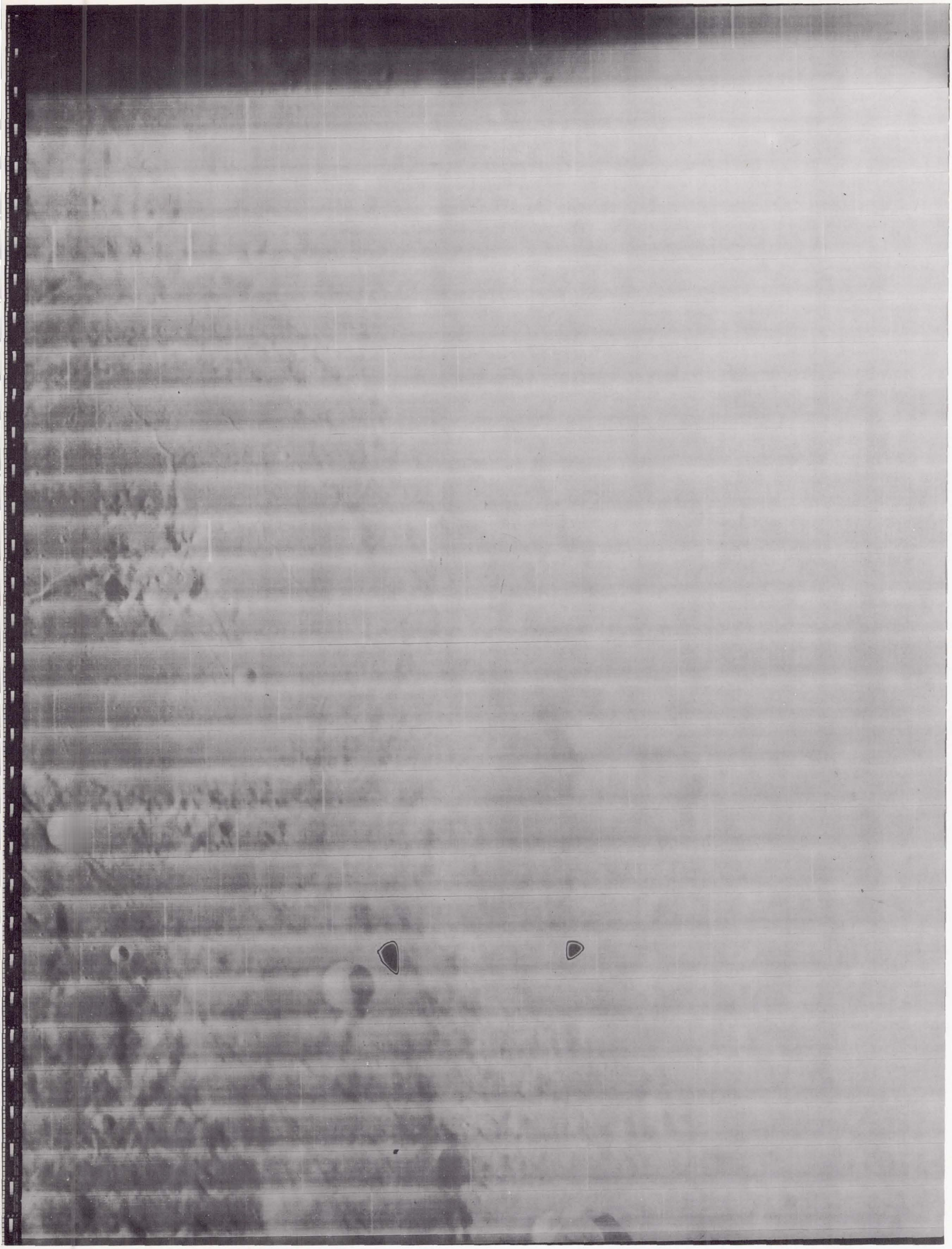
N

PHOTO NO. IV-46-H2

CENTER COORDINATES ..... LONG. 63.40
LAT. −14.81
NORTH DEVIATION (DEG.) ..... 4.84
SUN ANGLE ..... 64.5
SPACECRAFT ALTITUDE (KM) .... 2742.61

PLATE 341

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-46-H1

CENTER COORDINATES ..... LONG. 63.40
LAT. −14.81
NORTH DEVIATION (DEG.) ..... 4.84
SUN ANGLE ..... 64.5
SPACECRAFT ALTITUDE (KM) ..... 2742.61

N

1 CENTIMETER ≈ 11 KILOMETERS

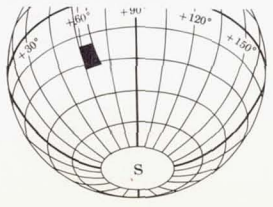
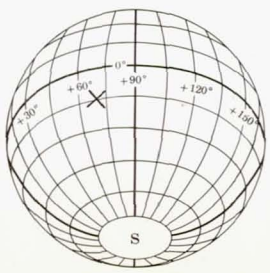



PLATE 342

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 87 KILOMETERS

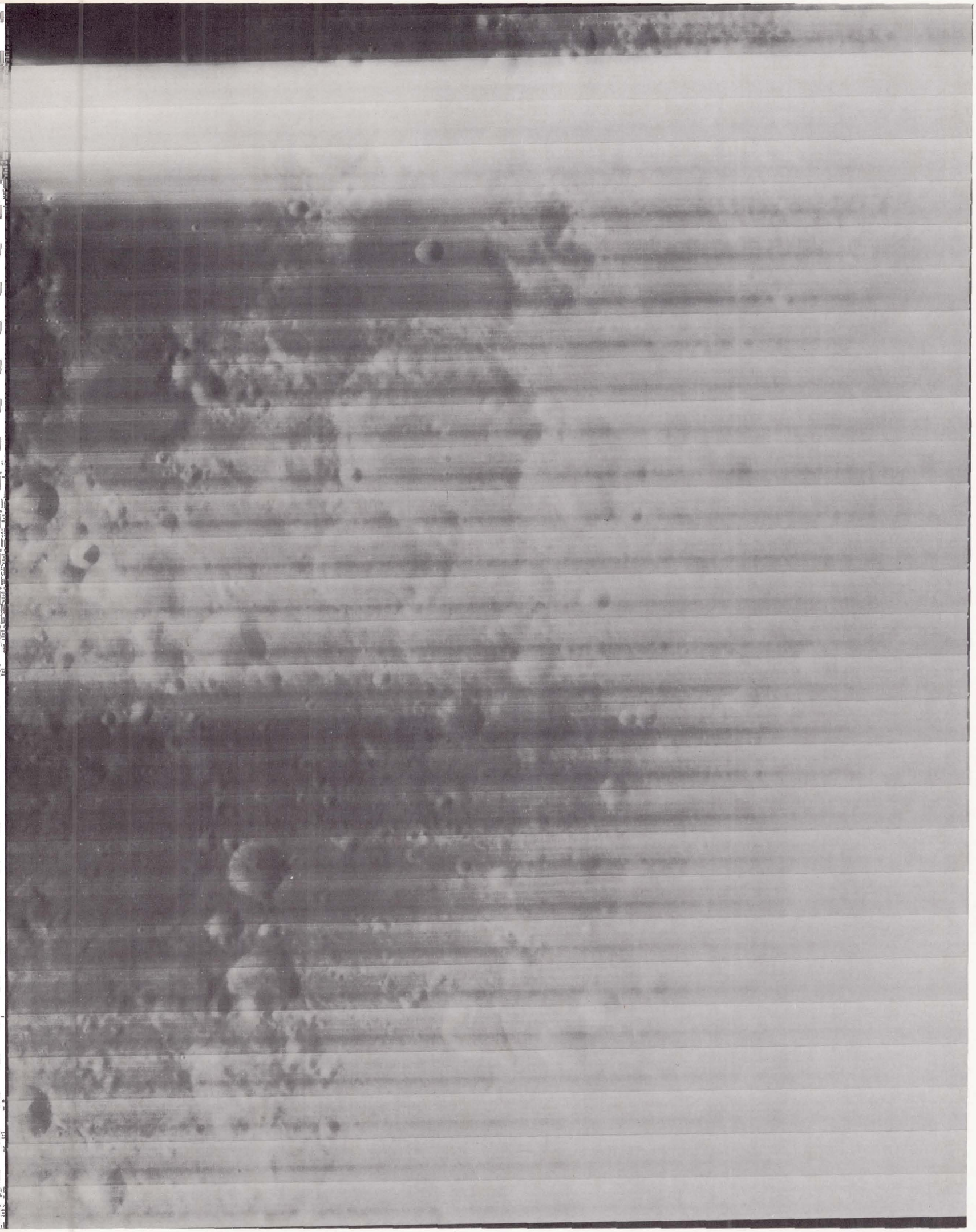
N

PHOTO NO. IV-39-M

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | 69.88 |
| | LAT. | −14.89 |
| NORTH DEVIATION (DEG.) | | 5.08 |
| SUN ANGLE | | 64.2 |
| SPACECRAFT ALTITUDE (KM) | | 2744.57 |

PLATE 343

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-39-H3

ENTER COORDINATES ..... LONG. 69.88
LAT. −14.90
ORTH DEVIATION (DEG.) ..... 5.08
UN ANGLE ..... 64.2
PACECRAFT ALTITUDE (KM) ..... 2744.58

N

1 CENTIMETER ≈ 11 KILOMETERS

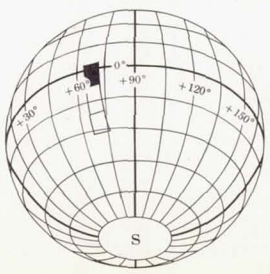
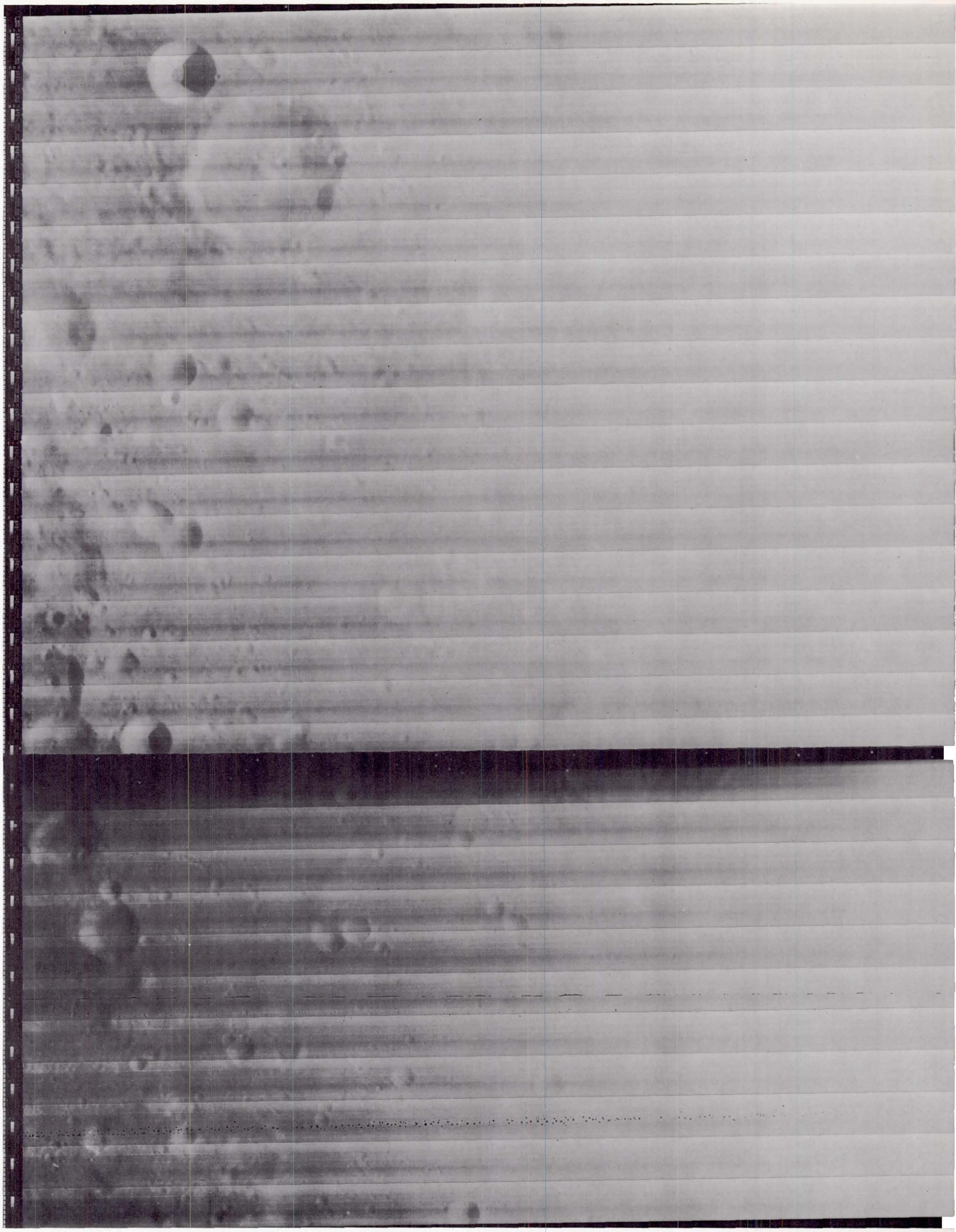
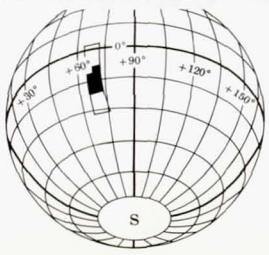



PLATE 344

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BALMER .....H12

1 CENTIMETER ≈ 11 KILOMETERS

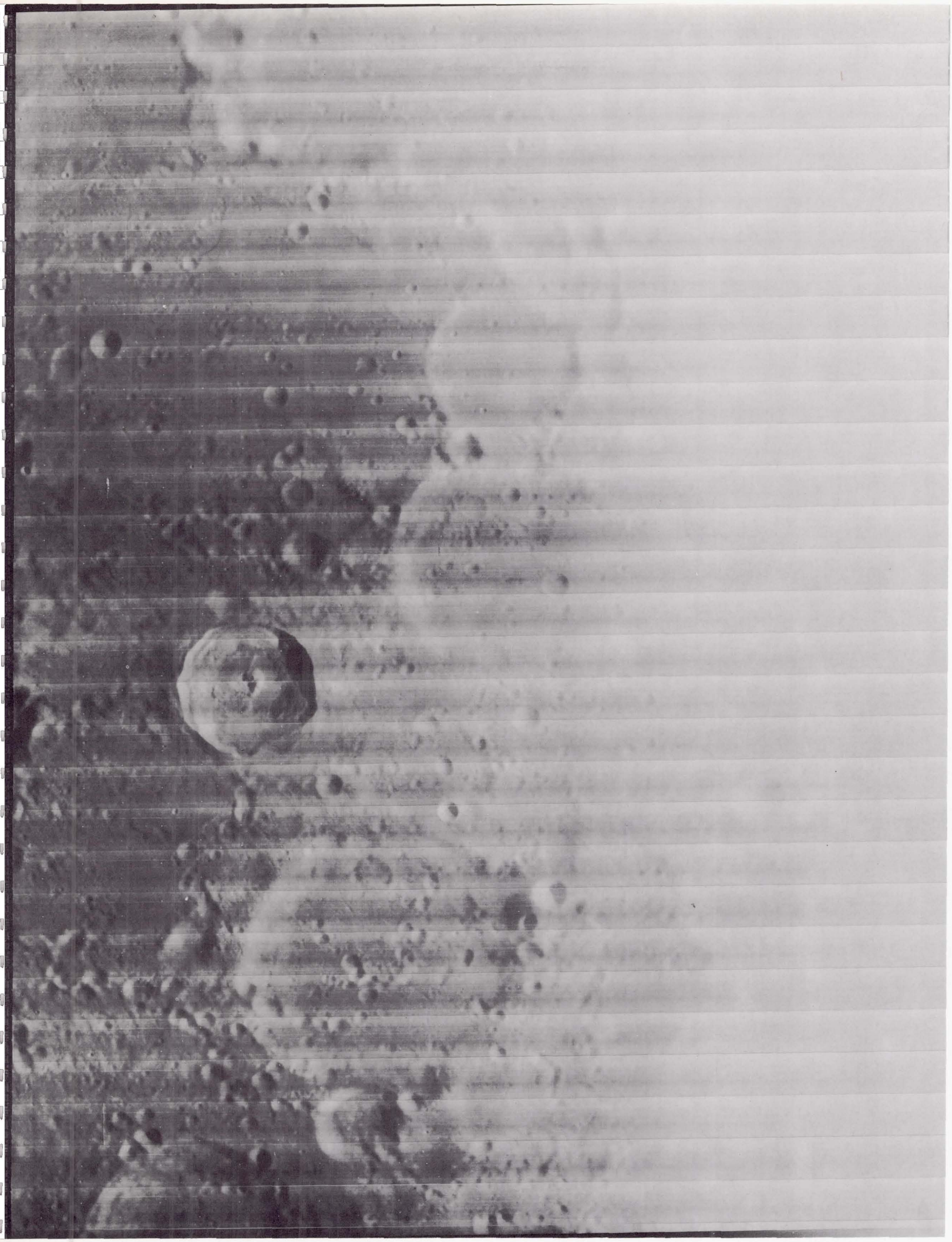
N

PHOTO NO. IV-39-H2

CENTER COORDINATES ..... LONG. 69.88
LAT. −14.90
NORTH DEVIATION (DEG.) .....5.08
SUN ANGLE .....64.2
SPACECRAFT ALTITUDE (KM) .....2744.58

PLATE 345

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-39-H1

CENTER COORDINATES ..... LONG. 69.88
LAT. −14.90
NORTH DEVIATION (DEG.) ..... 5.08
SUN ANGLE ..... 64.2
SPACECRAFT ALTITUDE (KM) ..... 2744.58

N

CENTIMETER ≈ 11 KILOMETERS

ADAMS ..... K15
BALMER ..... F2
LEGENDRE ..... H12

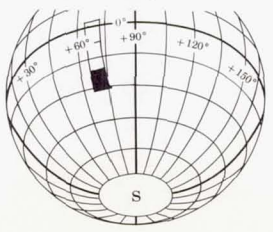
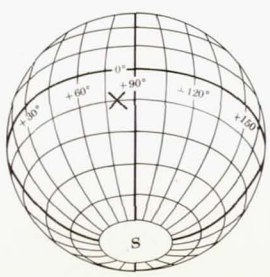



PLATE 346

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 87 KILOMETERS

N

PHOTO NO. IV-27-M

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | 82.67 |
| LAT. | −15.21 |
| NORTH DEVIATION (DEG.) ..... | 4.98 |
| SUN ANGLE ..... | 63.7 |
| SPACECRAFT ALTITUDE (KM) ..... | 2747.17 |

PLATE 347

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

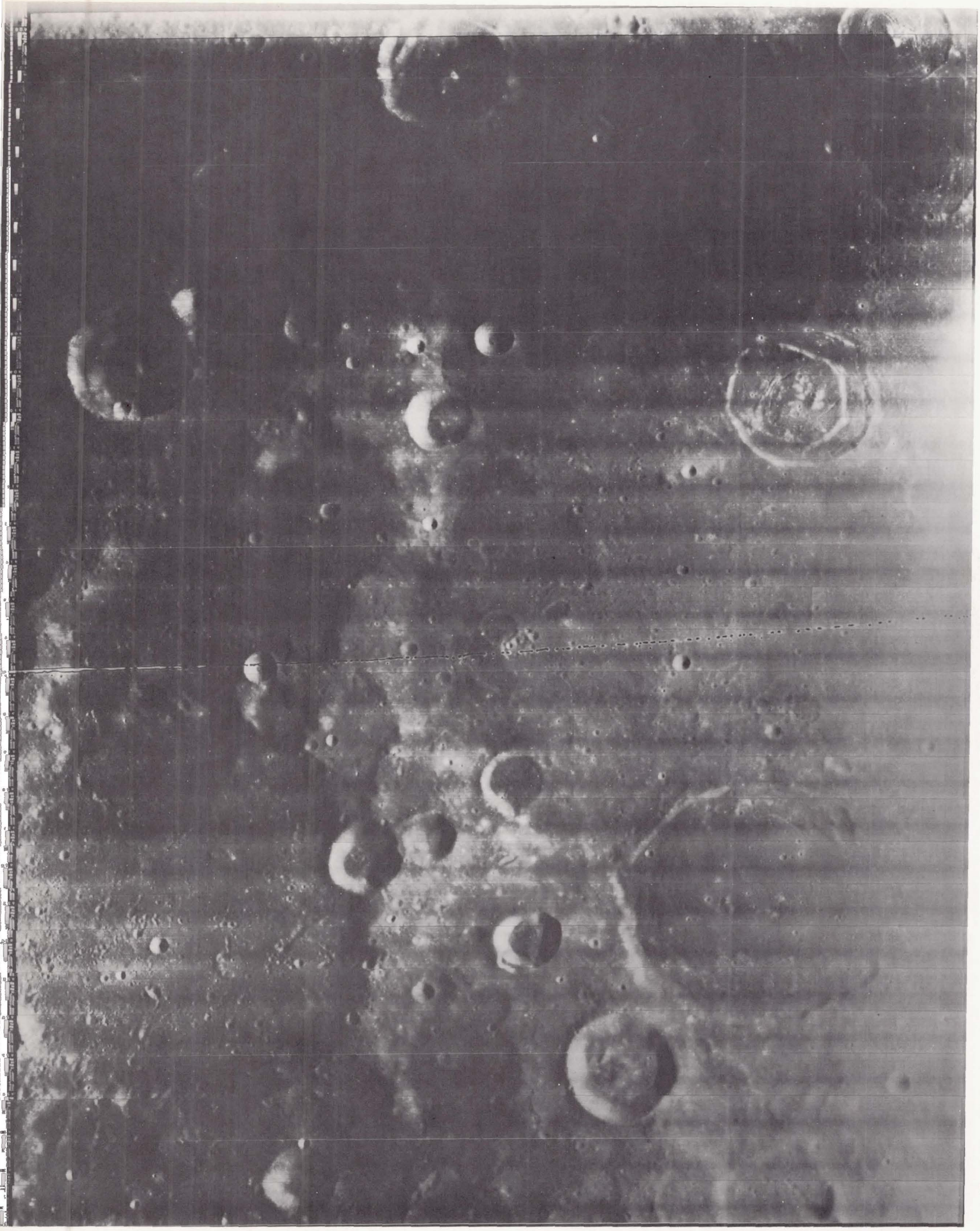


PHOTO NO. IV-27-H3

ENTER COORDINATES ..... LONG. 82.67
LAT. −15.22
ORTH DEVIATION (DEG.) ..... 4.98
IN ANGLE ..... 63.7
PACECRAFT ALTITUDE (KM) ..... 2747.18

N

1 CENTIMETER ≈ 11 KILOMETERS

KÄSTNER ..... K12

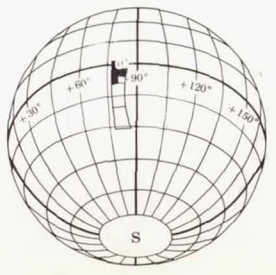
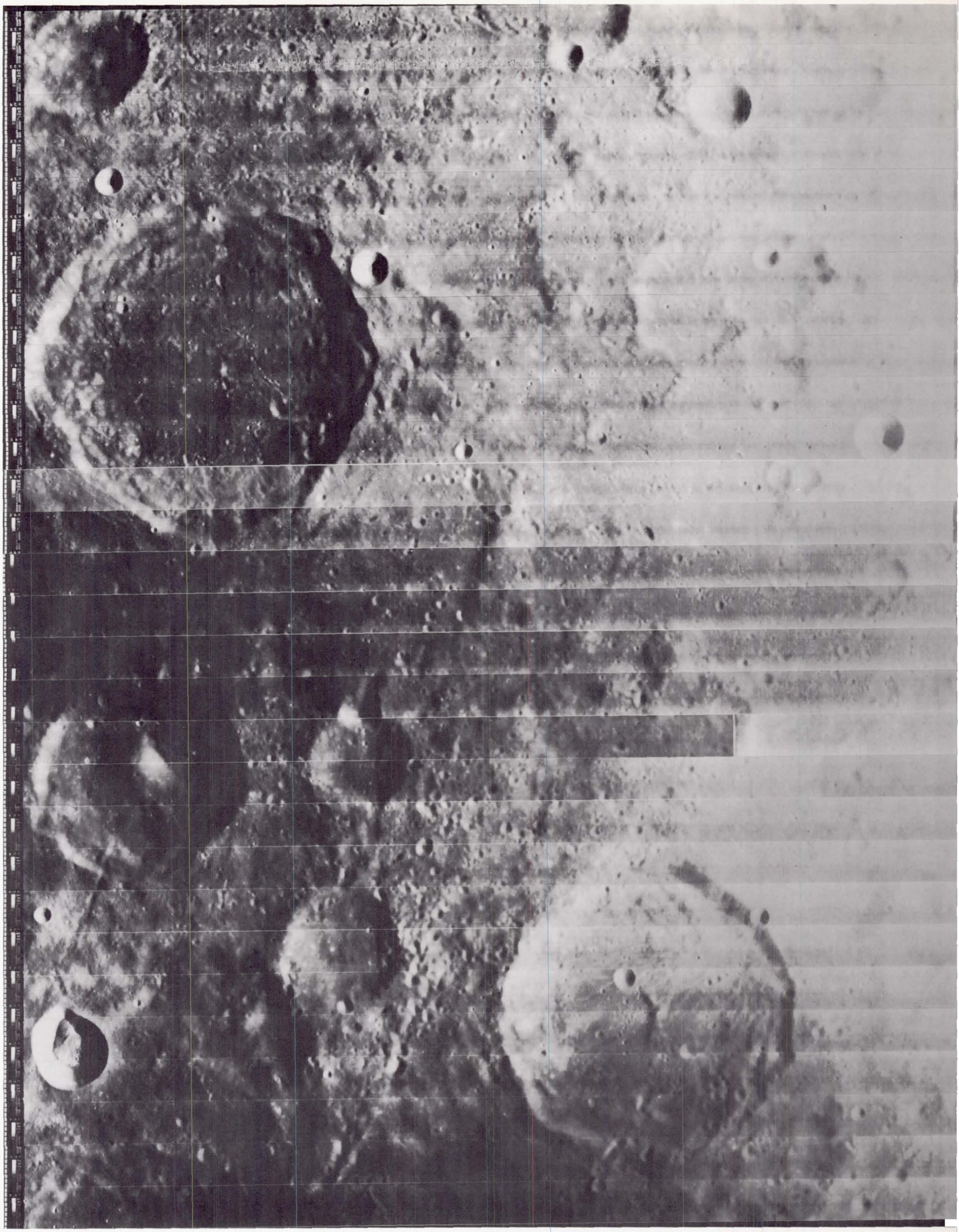
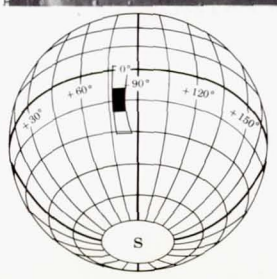



PLATE 348

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ANSGARIUS ..... C5
BEHAIM ..... B10
GIBBS ..... H13
HECATAEUS ..... B15

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-27-H2

CENTER COORDINATES ..... LONG. 82.6
LAT. −15.2
NORTH DEVIATION (DEG.) ..... 4.9
SUN ANGLE ..... 63.
SPACECRAFT ALTITUDE (KM) ..... 2747.1

PLATE 349

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-27-H1

ENTER COORDINATES ..... LONG. 82.67
LAT. −15.22
ORTH DEVIATION (DEG.) ..... 4.98
UN ANGLE ..... 63.7
PACECRAFT ALTITUDE (KM) .....2747.18

N

1 CENTIMETER ≈ 11 KILOMETERS

HOMBOLT ..... J8
HECATAEUS ..... L2

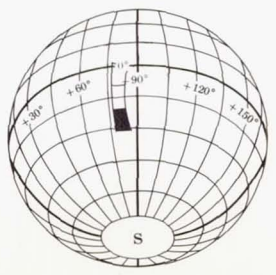
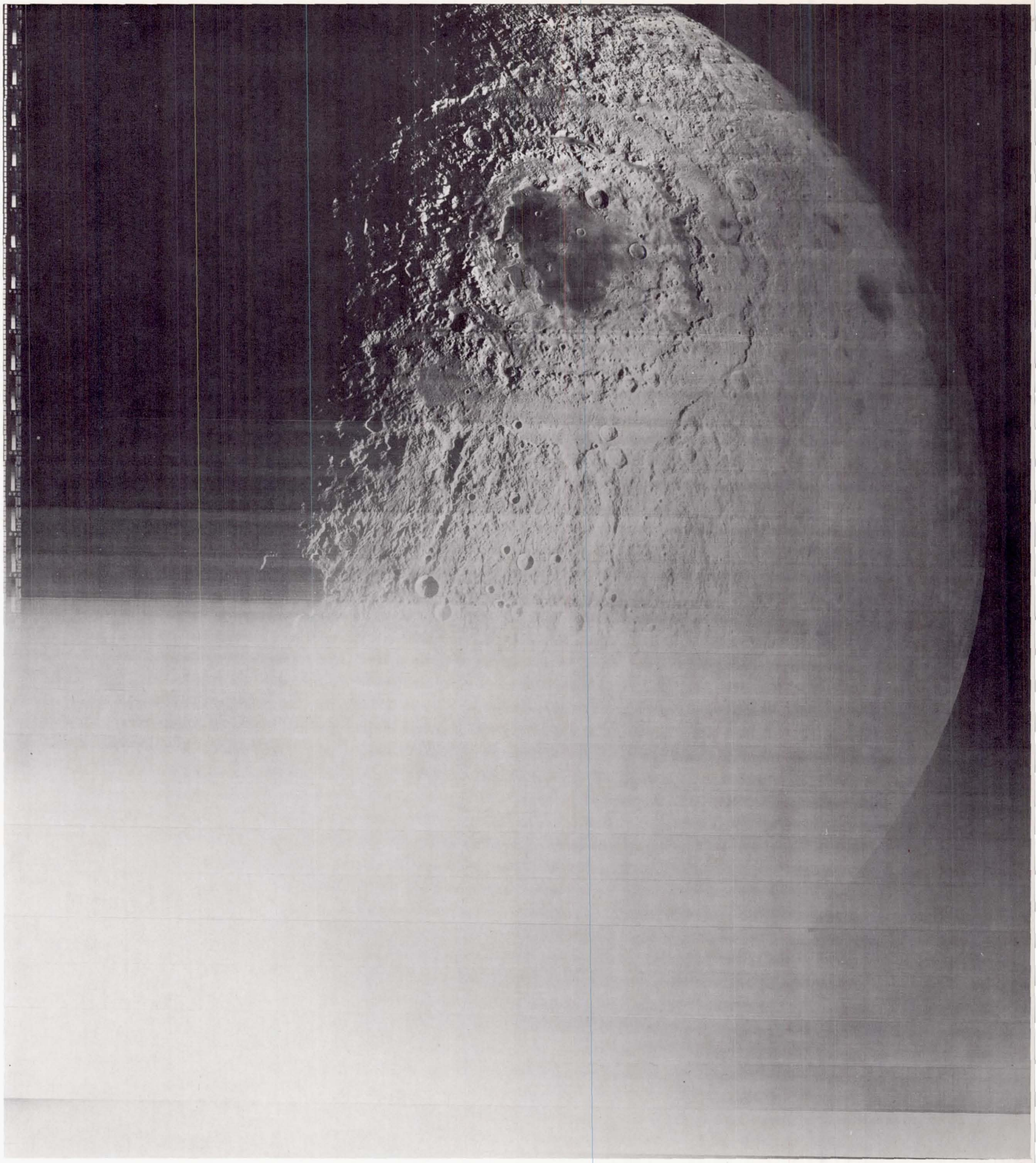
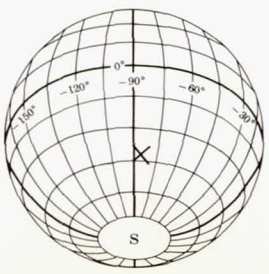



PLATE 350

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE ORIENTALE .... G3

1 CENTIMETER ≈ 96 KILOMETERS

N

PHOTO NO. IV-194-M

CENTER COORDINATES ..... LONG. —86.5
LAT. —42.9
NORTH DEVIATION (DEG.) ..... 25.7
SUN ANGLE ..... 73.
SPACECRAFT ALTITUDE (KM) ..... 3002.7

PLATE 351

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

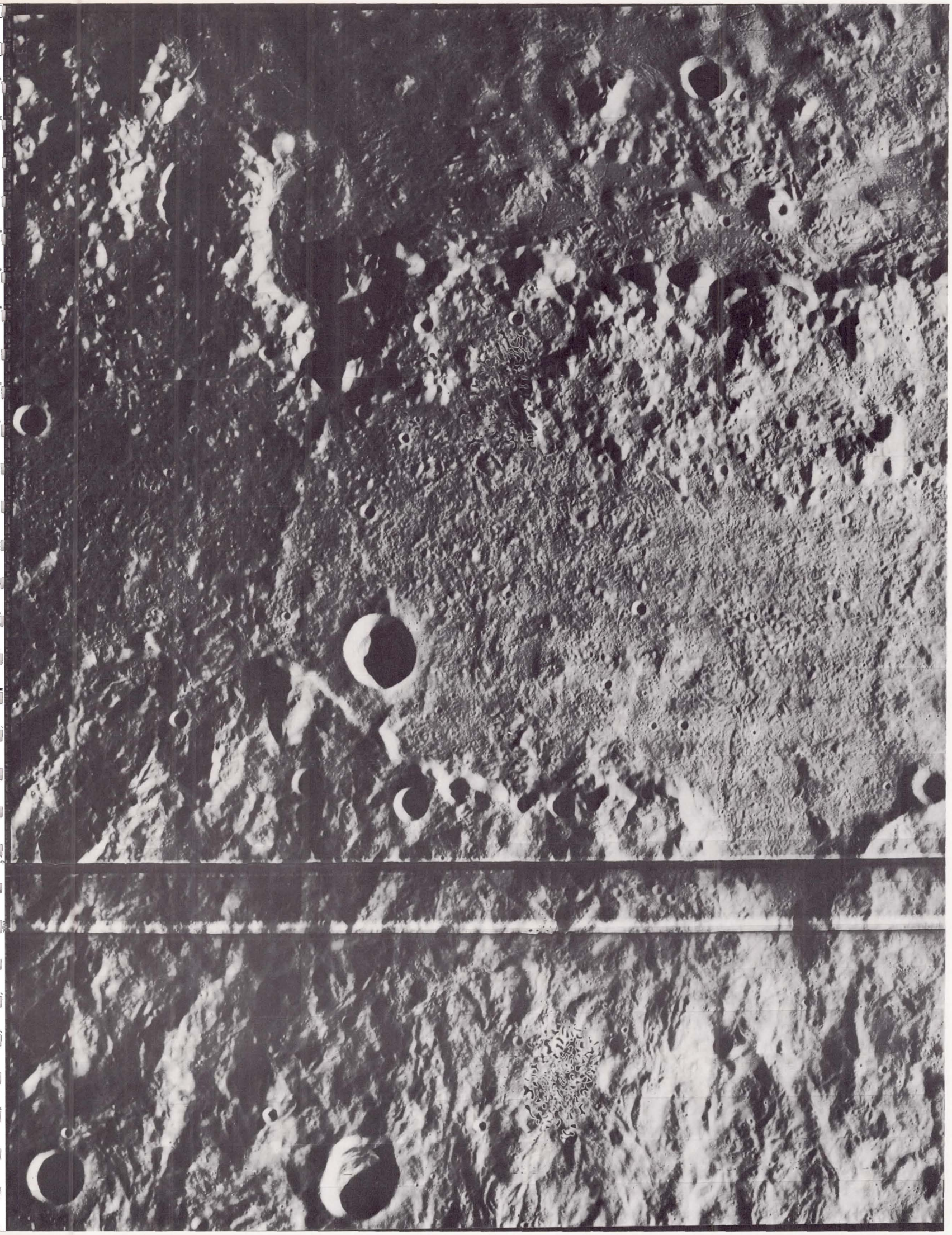


PHOTO NO. IV-194-H3

CENTER COORDINATES ..... LONG. —86.50
LAT. —42.97
NORTH DEVIATION (DEG.) ..... 25.78
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 3002.81

N

1 CENTIMETER ≈ 13 KILOMETERS

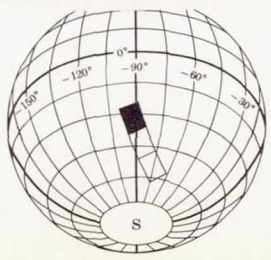
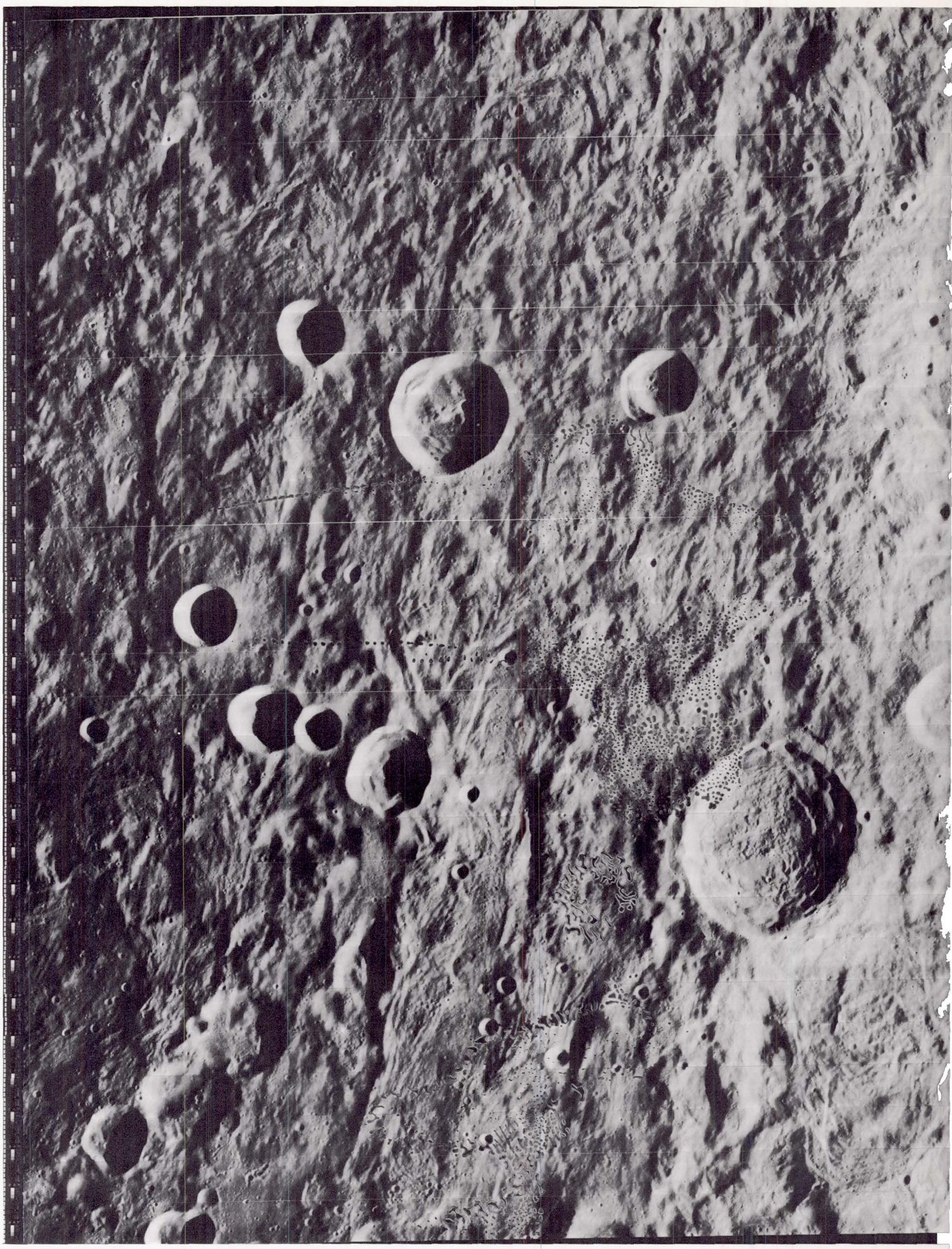
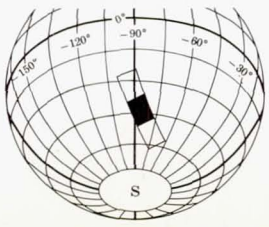



PLATE 352

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BAADE . . . . K11

1 CENTIMETER ≈ 13 KILOMETERS

N

PHOTO NO. IV-194-H2

CENTER COORDINATES ..... LONG. −86.5°
LAT. −42.9°
NORTH DEVIATION (DEG.) ..... 25.7°
SUN ANGLE ..... 73.
SPACECRAFT ALTITUDE (KM) ..... 3002.8

PLATE 353

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-194-H1

CENTER COORDINATES ..... LONG. —86.50
LAT. —42.97
NORTH DEVIATION (DEG.) ..... 25.78
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 3002.81

N

1 CENTIMETER ≈ 13 KILOMETERS

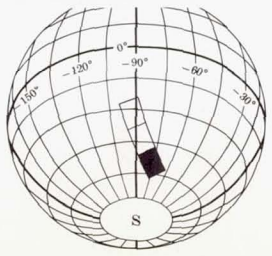
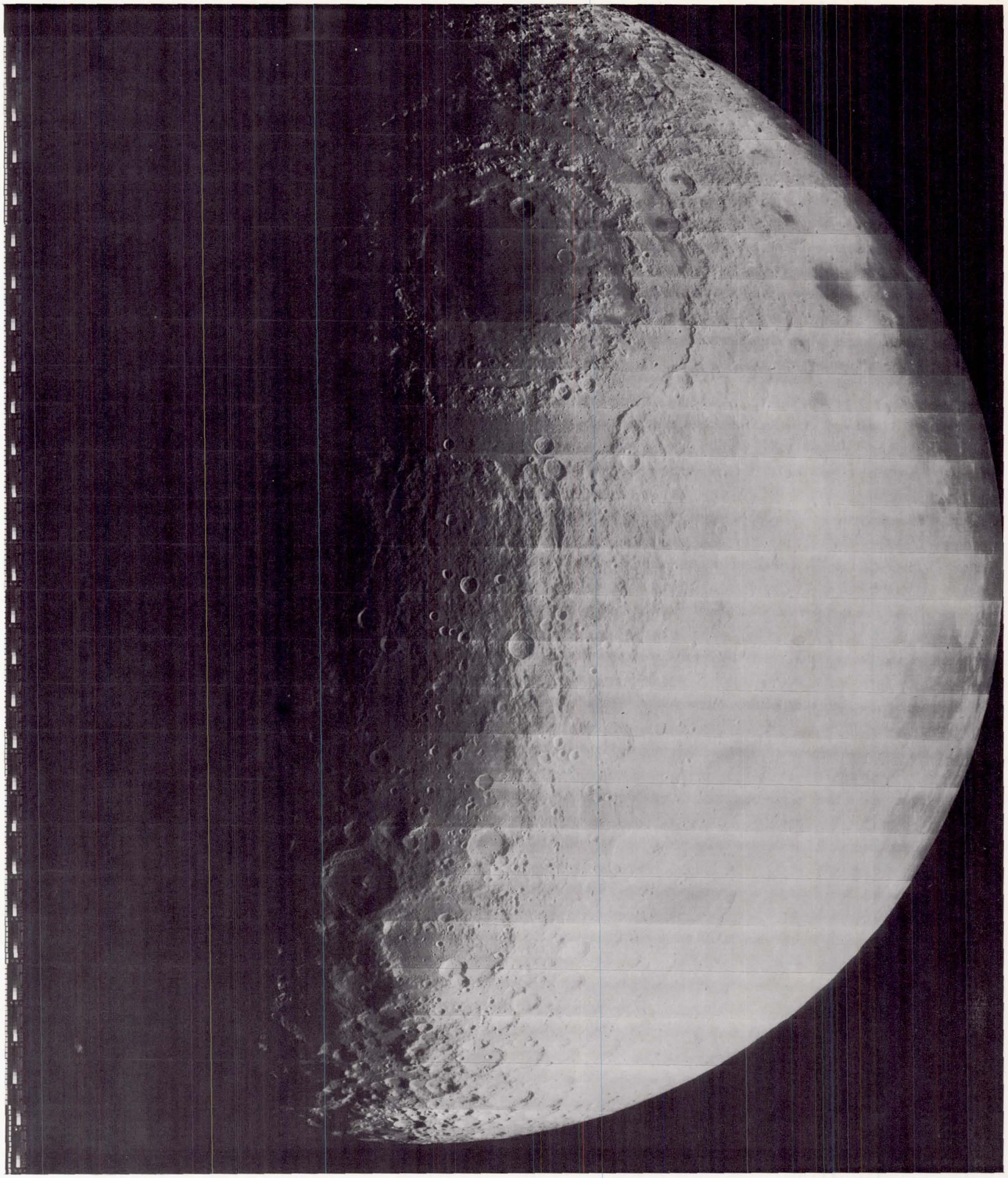
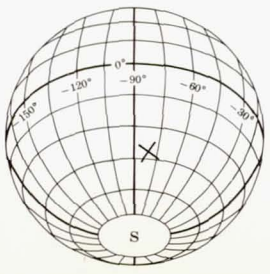



PLATE 354

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE ORIENTALE ..... F3

1 CENTIMETER ≈ 96 KILOMETERS




PHOTO NO. IV-186-M

CENTER COORDINATES ..... LONG. —81.34
LAT. —42.26
NORTH DEVIATION (DEG.) ..... 24.52
SUN ANGLE ..... 74.4
SPACECRAFT ALTITUDE (KM) ..... 3005.57

PLATE 355

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-186-H3

CENTER COORDINATES ..... LONG. —81.34
LAT. —42.27
NORTH DEVIATION (DEG.) ..... 24.53
SUN ANGLE ..... 74.4
SPACECRAFT ALTITUDE (KM) ..... 3005.60

N

1 CENTIMETER ≈ 13 KILOMETERS

SHALER .... E10
WRIGHT .... F8

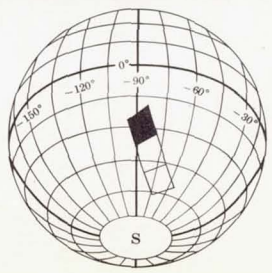
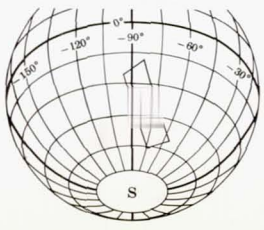



PLATE 356

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BAADE .... E10

1 CENTIMETER ≈ 13 KILOMETERS

N

PHOTO NO. IV-186-H2

CENTER COORDINATES ..... LONG. —81.3°
LAT. —42.2°
NORTH DEVIATION (DEG.) ..... 24.5°
SUN ANGLE ..... 74.4°
SPACECRAFT ALTITUDE (KM) ..... 3005.6

PLATE 357

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-186-H1

CENTER COORDINATES ..... LONG.—81.34
LAT. —42.27
NORTH DEVIATION (DEG.) ..... 24.53
SUN ANGLE ..... 74.4
SPACECRAFT ALTITUDE (KM) ..... 3005.60

N

1 CENTIMETER ≈ 13 KILOMETERS

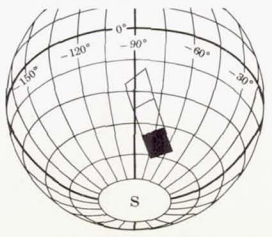
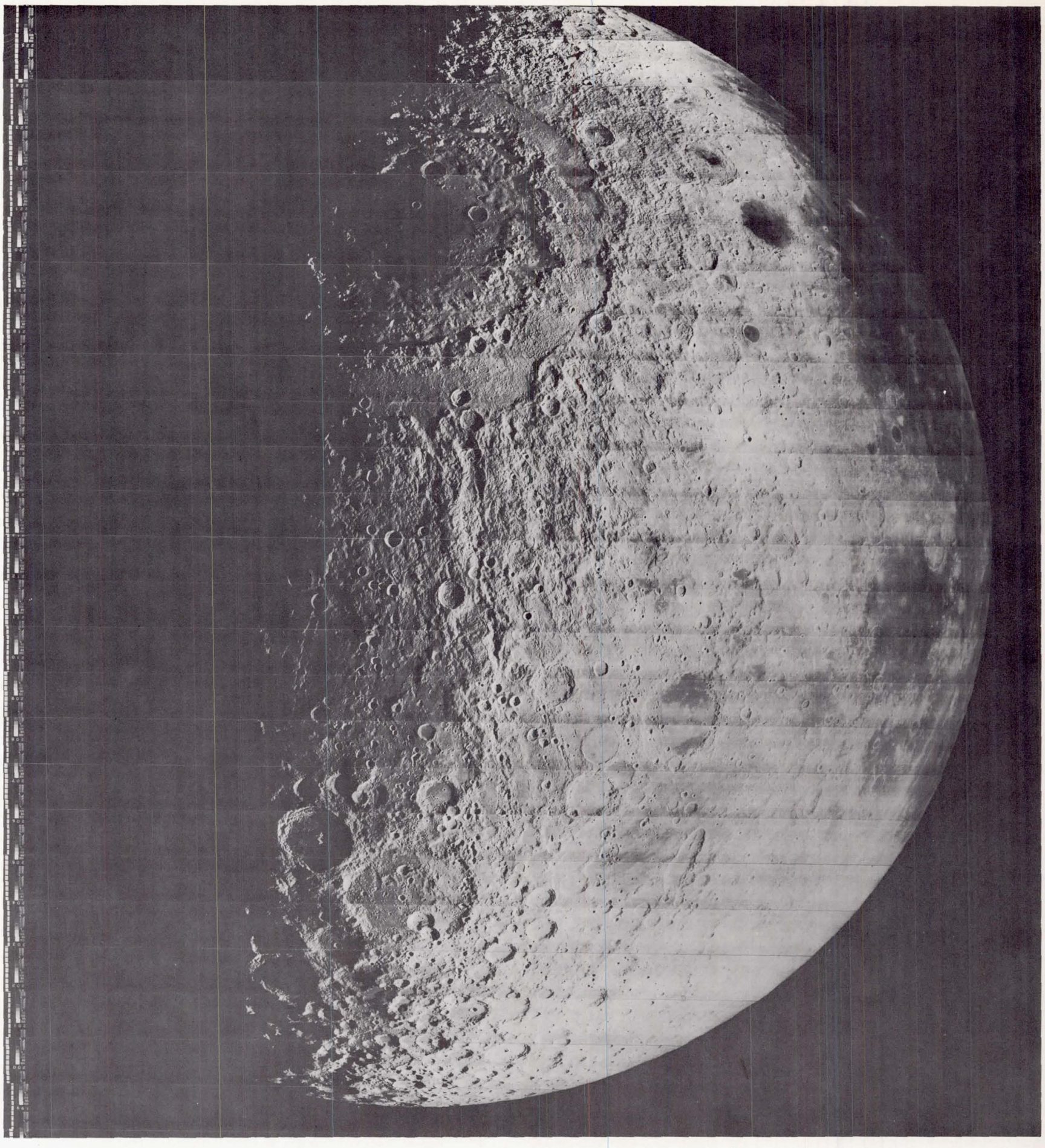
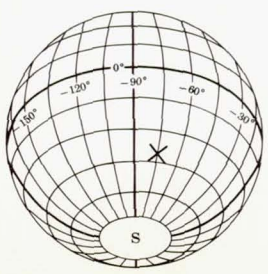



PLATE 358

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... L7
MARE ORIENTALE ..... E3
OCEANUS PROCELLARUM .... L4

1 CENTIMETER ≈ 96 KILOMETERS

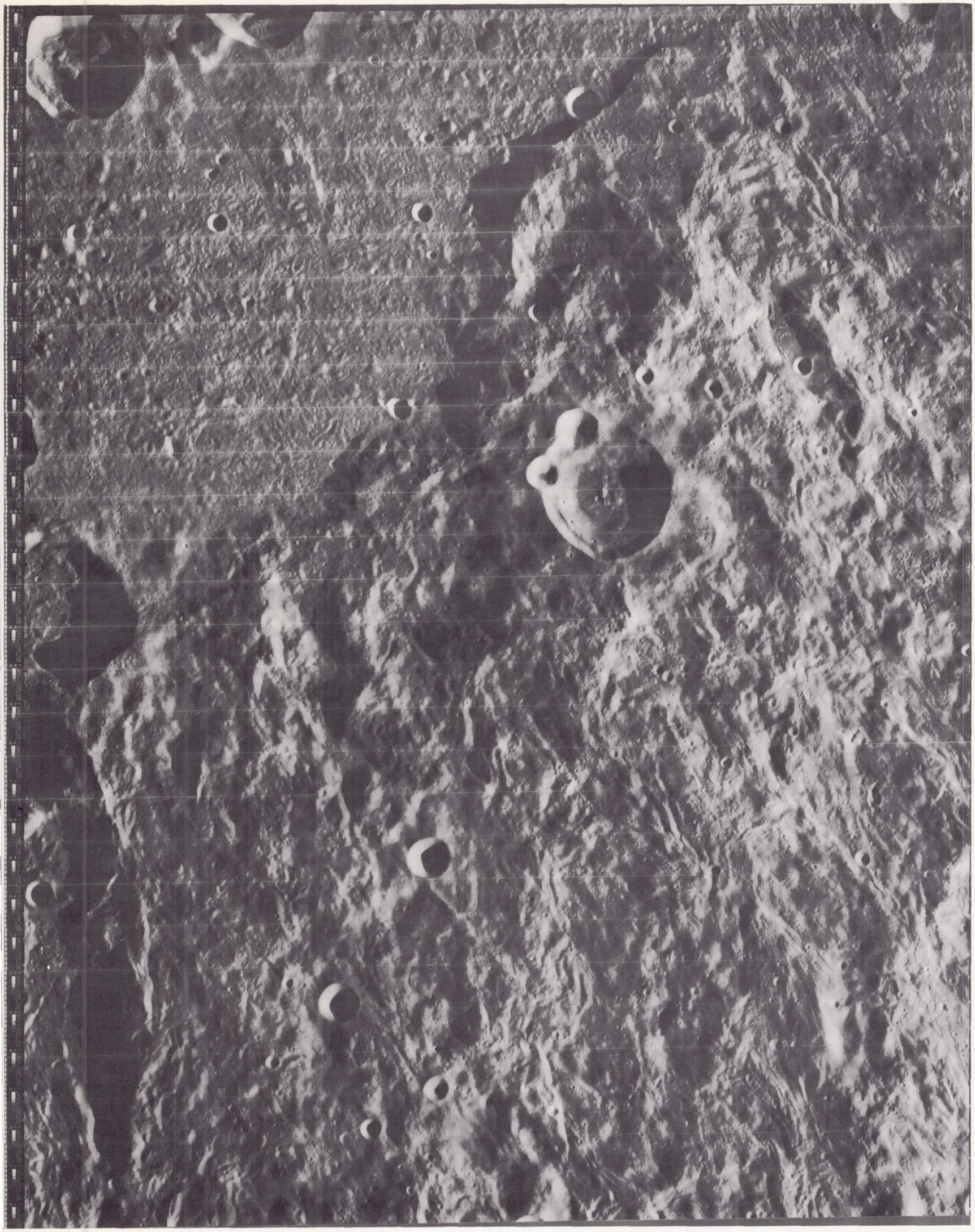
N

PHOTO NO. IV-180-M

CENTER COORDINATES ..... LONG. −75.22
LAT. −40.83
NORTH DEVIATION (DEG.) ..... 24.22
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 3008.99

PLATE 359

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-180-H3

CENTER COORDINATES ..... LONG. −75.22
LAT. −40.83
NORTH DEVIATION (DEG.) ..... 24.22
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 3009.02

N

1 CENTIMETER ≈ 13 KILOMETERS

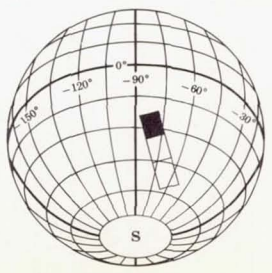
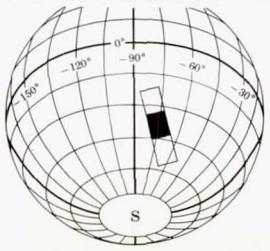



PLATE 360

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






INGHIRAMI .... H16

1 CENTIMETER ≈ 13 KILOMETERS

N

PHOTO NO. IV-180-H2

CENTER COORDINATES ..... LONG. −75.22
LAT. −40.83
NORTH DEVIATION (DEG.) ..... 24.22
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 3009.02

PLATE 361

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-180-H1

CENTER COORDINATES ..... LONG. −75.22
LAT. −40.83
NORTH DEVIATION (DEG.) ..... 24.22
SUN ANGLE ..... 73.9
SPACECRAFT ALTITUDE (KM) ..... 3009.02

N

1 CENTIMETER ≈ 13 KILOMETERS

INGHIRAMI ..... E1
WARGENTIN .... A6

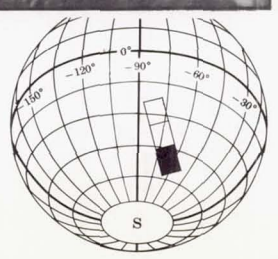
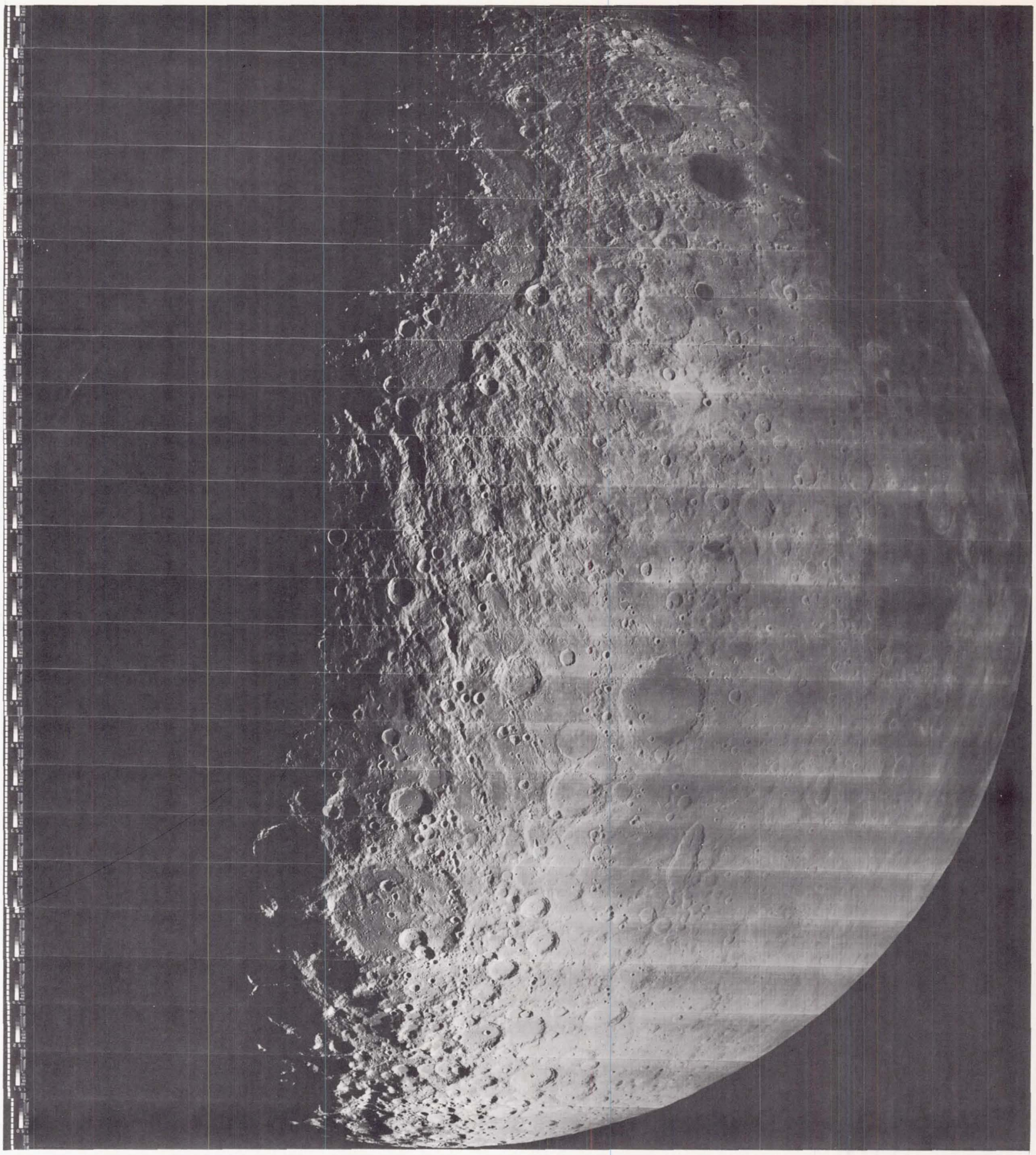
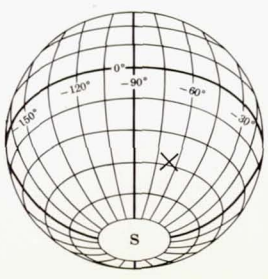



PLATE 362

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... L7

1 CENTIMETER ≈ 96 KILOMETERS

N

PHOTO NO. IV-172-M

CENTER COORDINATES ..... LONG.—67.9°
LAT. —42.9°
NORTH DEVIATION (DEG.) ..... 24.6°
SUN ANGLE ..... 73.
SPACECRAFT ALTITUDE (KM) ..... 3010.7

PLATE 363

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

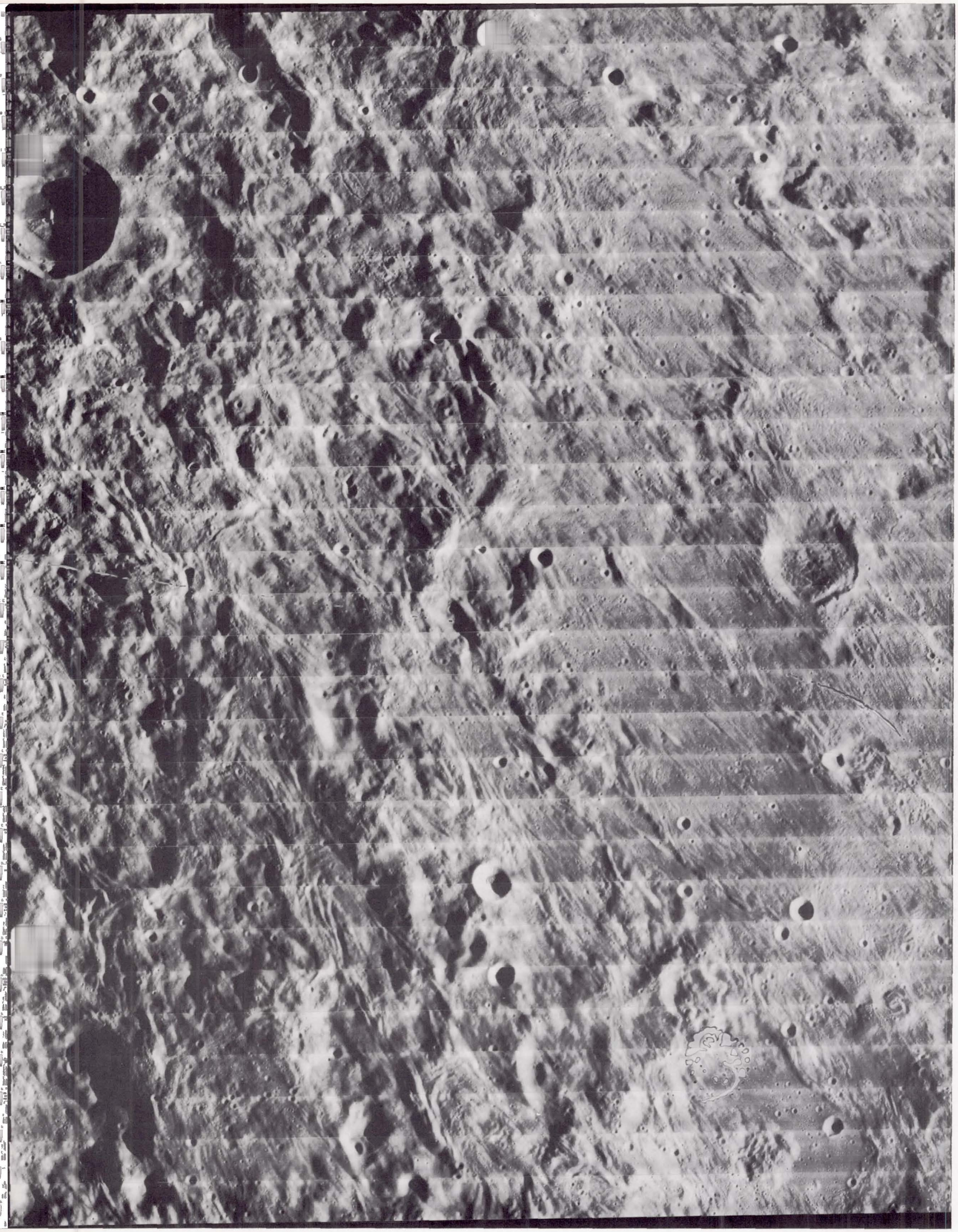


PHOTO NO. IV-172-H3

CENTER COORDINATES ..... LONG.—67.94
LAT. —42.94
NORTH DEVIATION (DEG.) ..... 24.62
SUN ANGLE ..... 73.7
SPACECRAFT ALTITUDE (KM) ..... 3010.73

N

1 CENTIMETER ≈ 13 KILOMETERS

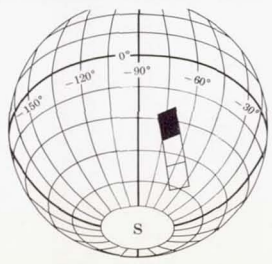
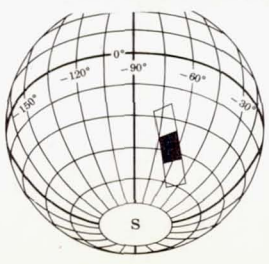



PLATE 364

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






INGHIRAMI ..... D12

1 CENTIMETER≈ 13 KILOMETERS

N

PHOTO NO. IV-172-H2

CENTER COORDINATES ..... LONG. —67.9°
LAT. —42.9°
NORTH DEVIATION (DEG.) ..... 24.6°
SUN ANGLE ..... 73.
SPACECRAFT ALTITUDE (KM) ..... 3010.7

PLATE 365

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

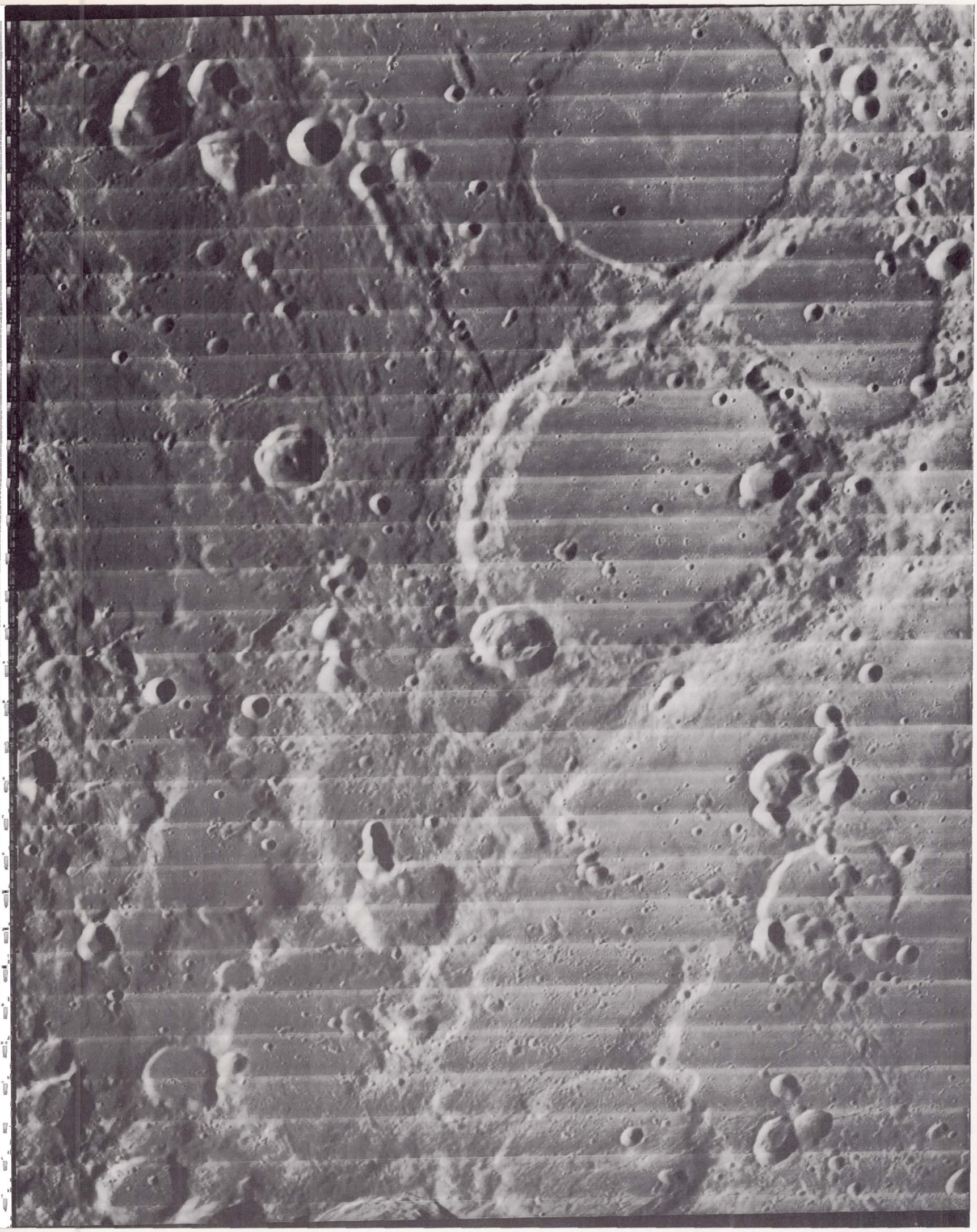


PHOTO NO. IV-172-H1

CENTER COORDINATES ..... LONG. —67.94
LAT. —42.94
NORTH DEVIATION (DEG.) ..... 24.62
SUN ANGLE ..... 73.7
SPACECRAFT ALTITUDE (KM) ..... 3010.73

N

1 CENTIMETER ≈ 13 KILOMETERS

NASMYTH ..... B4
PHOCYLIDES .... E7
WARGENTIN .... D2

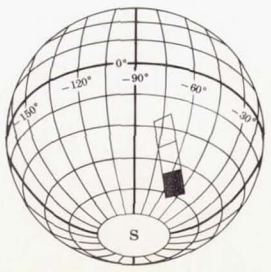
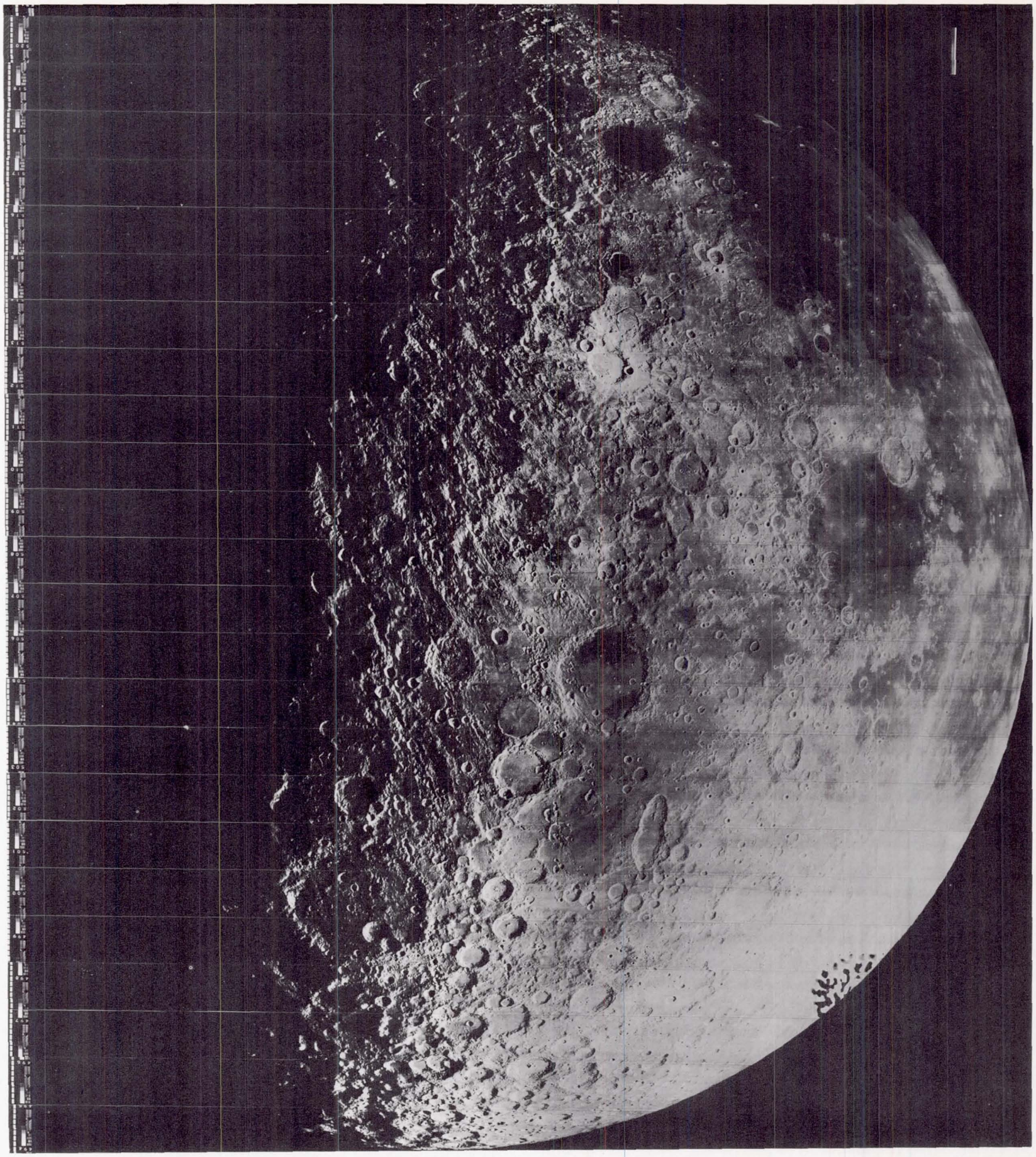
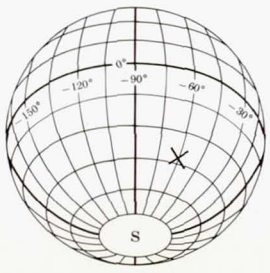



PLATE 366

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... K6
OCEANUS PROCELLARUM .... J3

1 CENTIMETER ≈ 96 KILOMETERS

N

PHOTO NO. IV-167-M

CENTER COORDINATES ..... LONG. −60.7(
LAT. −42.0(
NORTH DEVIATION (DEG.) ..... 25.0
SUN ANGLE ..... 72.6
SPACECRAFT ALTITUDE (KM) ..... 3009.0

PLATE 367

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

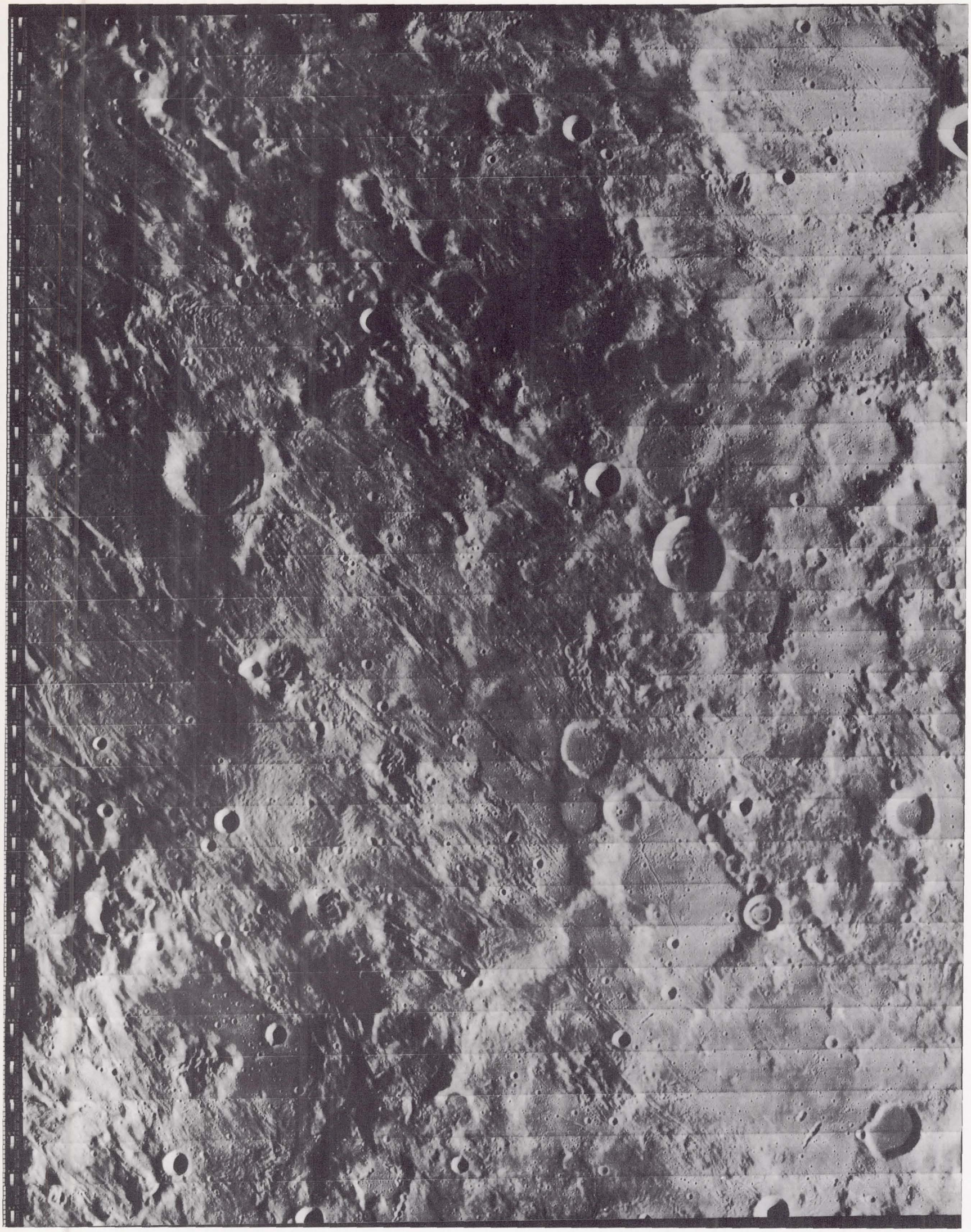


*PHOTO NO.* IV-167-H3

ENTER COORDINATES ..... LONG.–60.70
LAT. –42.01
ORTH DEVIATION (DEG.) ..... 25.08
UN ANGLE ... ..... 72.6
PACECRAFT ALTITUDE (KM) ..... 3009.06

N

1 CENTIMETER ≈ 13 KILOMETERS

BYRGIUS ..... B2

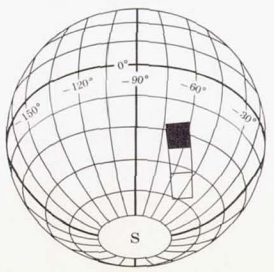
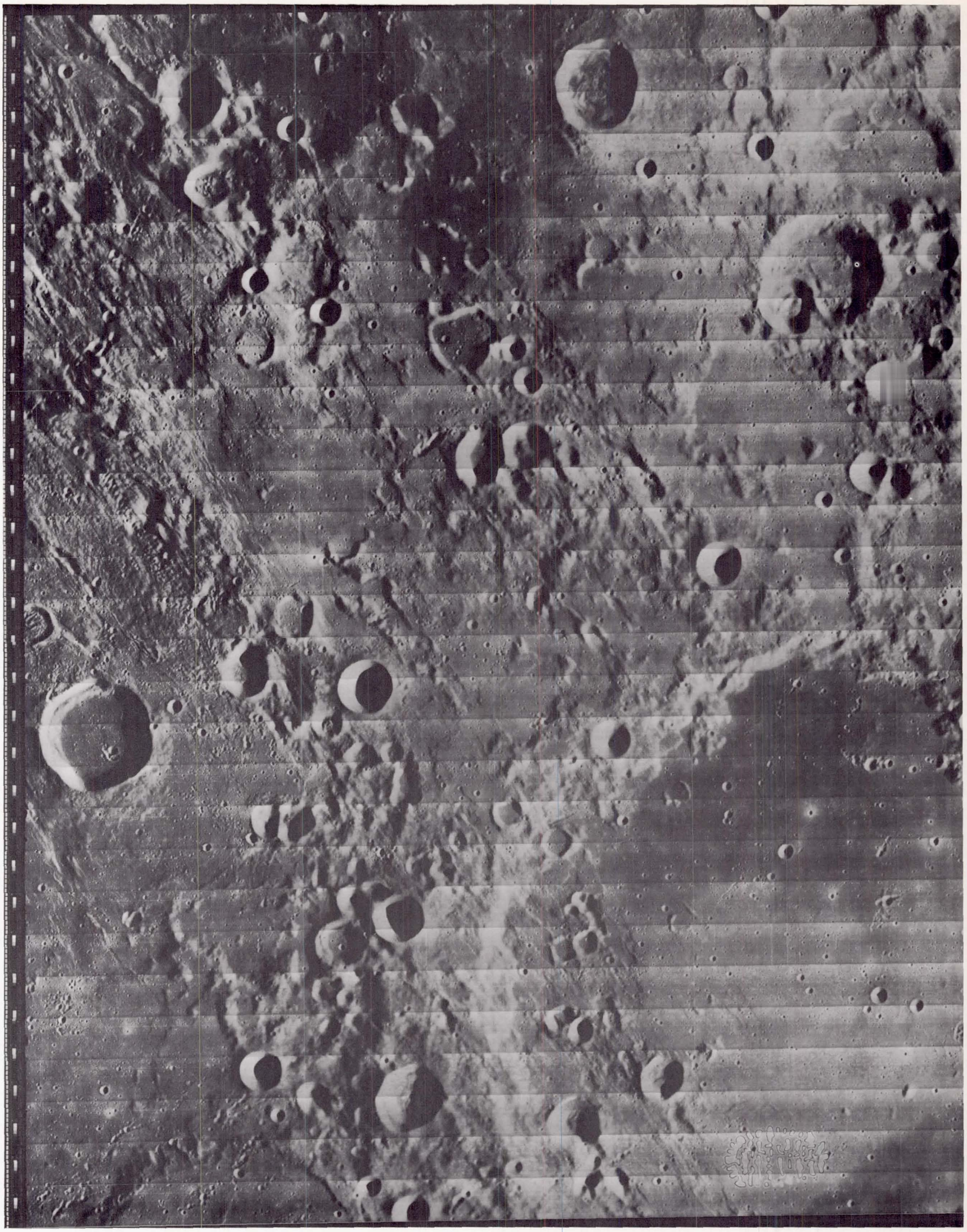
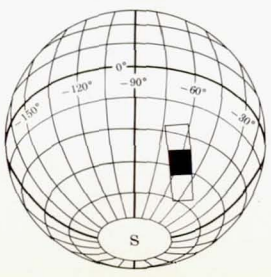



PLATE 368

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






LACROIX ..... L4
SCHICKARD .... K12
WARGENTIN ....C15

1 CENTIMETER≈13 KILOMETERS

N

PHOTO NO. IV-167-H2

CENTER COORDINATES ..... LONG. −60.7
LAT. −42.0
NORTH DEVIATION (DEG.) ..... 25.0
SUN ANGLE ..... 72.
SPACECRAFT ALTITUDE (KM) ..... 3009.0

PLATE 369

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

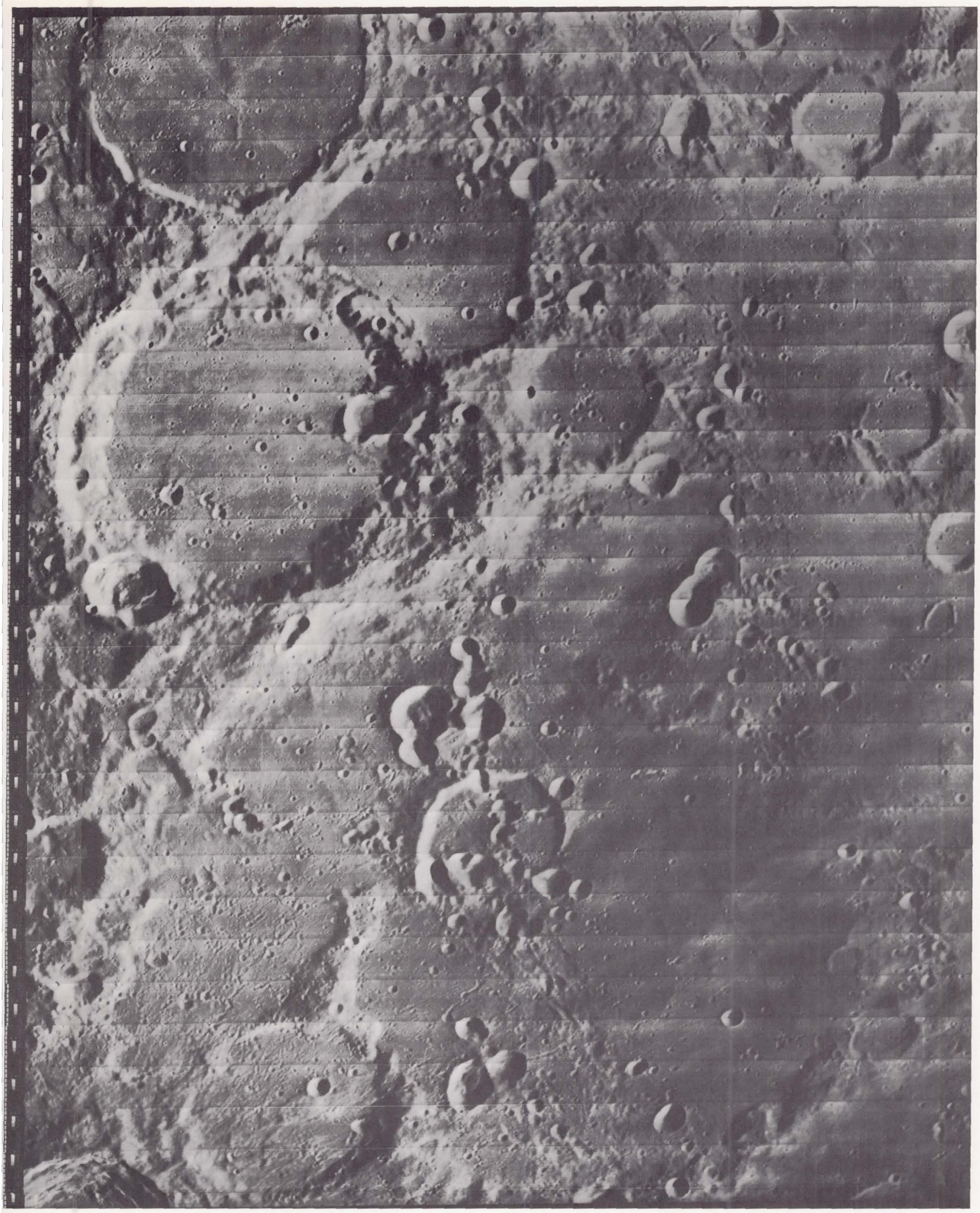


PHOTO NO. IV-167-H1

ENTER COORDINATES ..... LONG. −60.70
LAT. −42.01
ORTH DEVIATION (DEG.) ..... 25.08
N ANGLE ..... 72.6
PACECRAFT ALTITUDE (KM) ..... 3009.06

N

1 CENTIMETER ≈ 13 KILOMETERS

NASMYTH ..... G3
PHOCYLIDES .... K6
SEGNER ..... J14
WARGENTIN ..... K1
ZUCCHIUS ..... L15

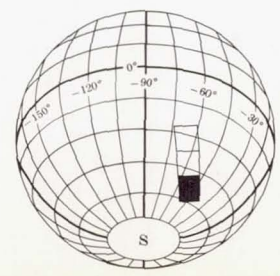
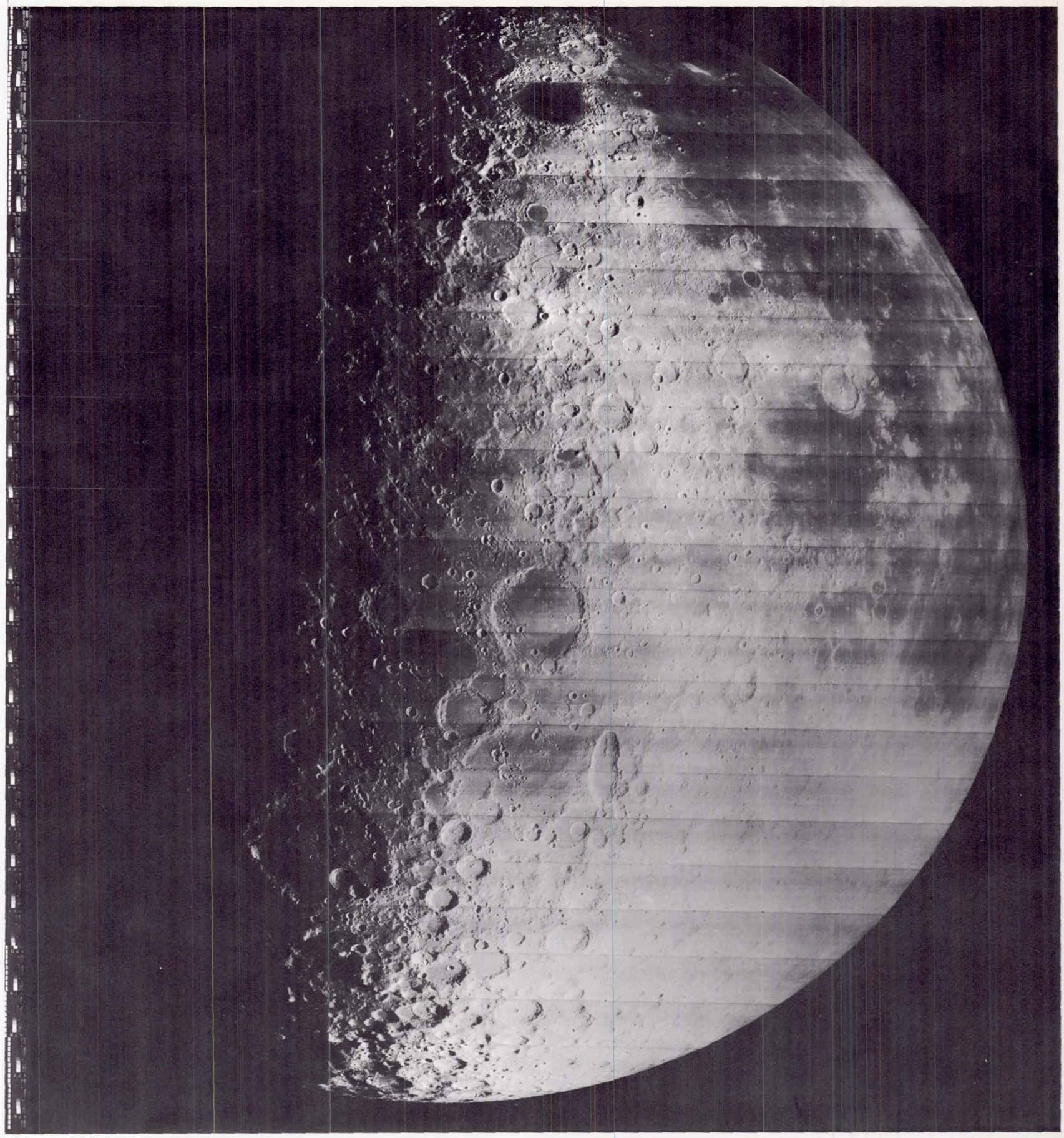
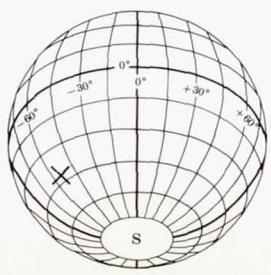



PLATE 370

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... K6
MARE NUBIUM ..... L7
OCEANUS PROCELLARUM ..... J2

1 CENTIMETER ≈ 96 KILOMETERS




PHOTO NO. IV-160-M

CENTER COORDINATES ..... LONG. −54.5
LAT. −42.7
NORTH DEVIATION (DEG.) ..... 24.9
SUN ANGLE ..... 72.
SPACECRAFT ALTITUDE (KM) ..... 3012.0

PLATE 371

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-160-H3

CENTER COORDINATES ..... LONG. −54.52
LAT. −42.79
NORTH DEVIATION (DEG.) ..... 24.97
SUN ANGLE ..... 72.7
SPACECRAFT ALTITUDE (KM) ..... 3012.07

N

1 CENTIMETER ≈ 13 KILOMETERS

VIETHA .... A6

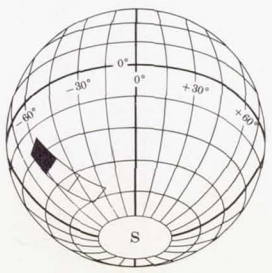
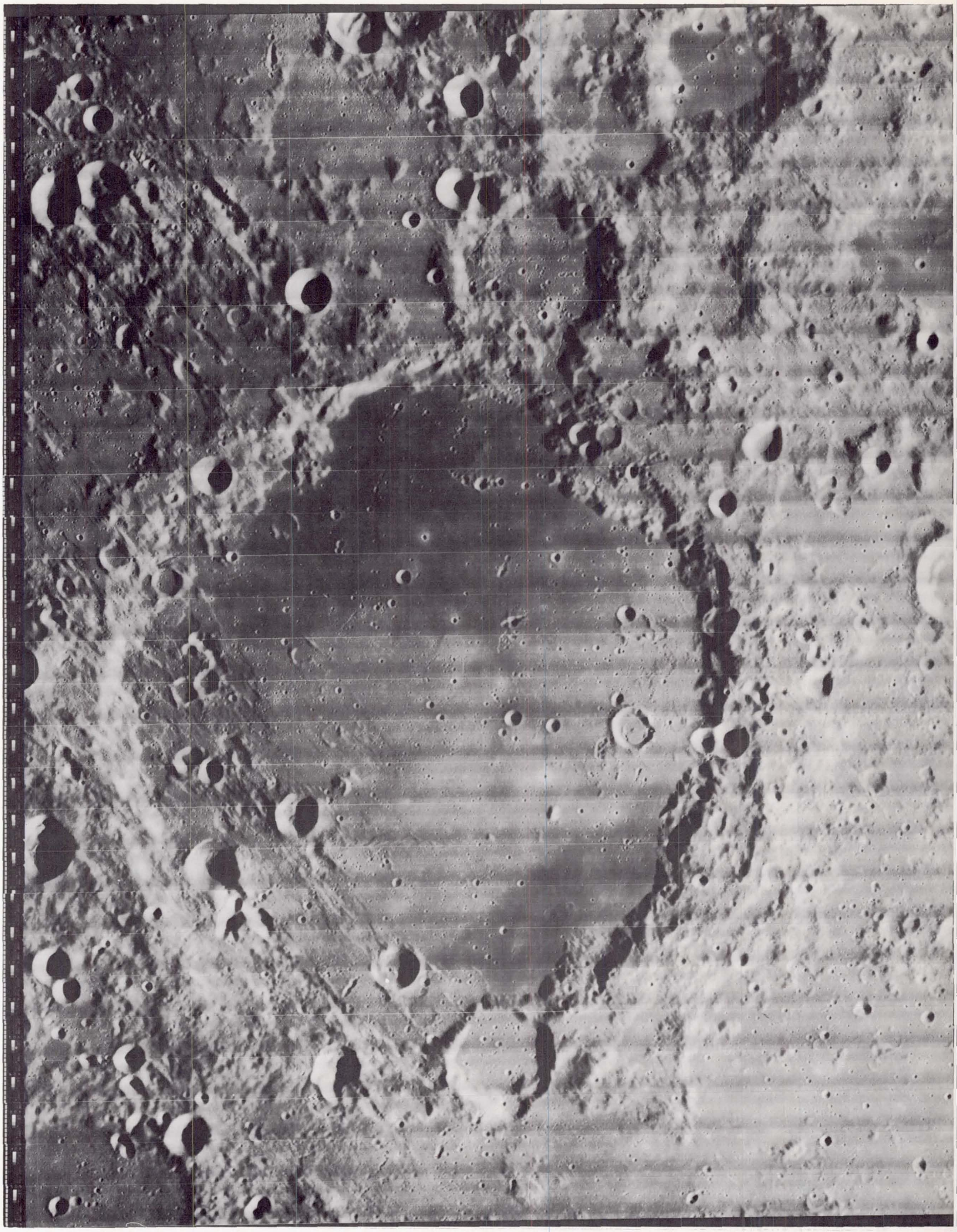
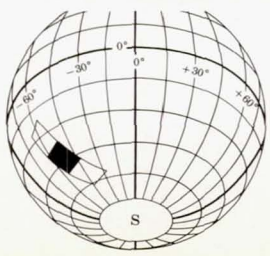



PLATE 372

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






LEHMANN ..... G4
SCHICKARD .... F9

1 CENTIMETER ≈ 13 KILOMETERS

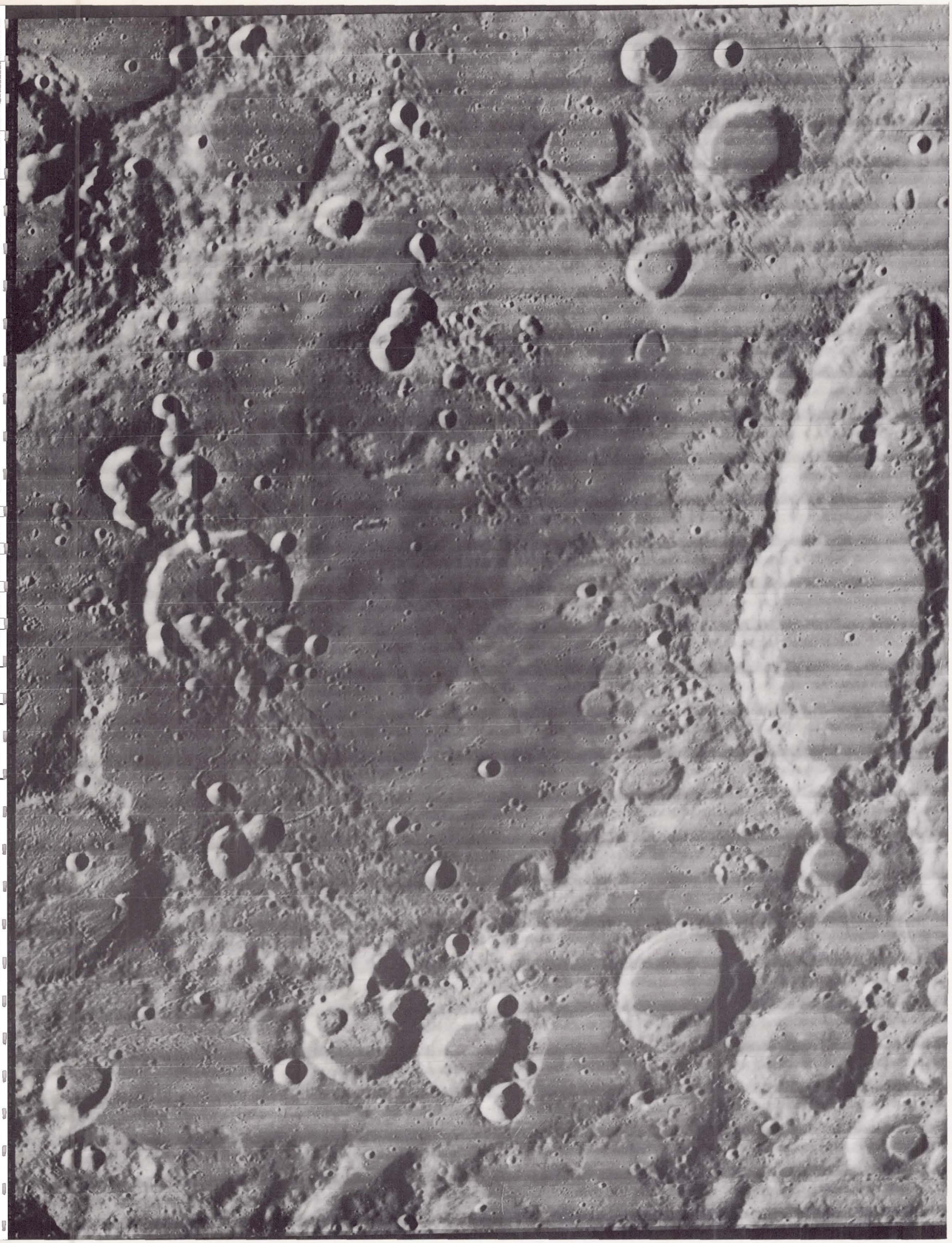
N

PHOTO NO. IV-160-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −54.52 |
| | LAT. −42.79 |
| NORTH DEVIATION (DEG.) ..... | 24.97 |
| SUN ANGLE ..... | 72.7 |
| SPACECRAFT ALTITUDE (KM) ..... | 3012.07 |

PLATE 373

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-160-H1

CENTER COORDINATES ..... LONG. −54.52
LAT. −42.79
NORTH DEVIATION (DEG.) ..... 24.97
SUN ANGLE ..... 72.7
SPACECRAFT ALTITUDE (KM) ..... 3012.07

N

1 CENTIMETER ≈ 13 KILOMETERS

NOGGERATH .... C2
ROST .....B14
SCHILLER ..... B8
SEGNER .....M12
WEIGEL ..... G14

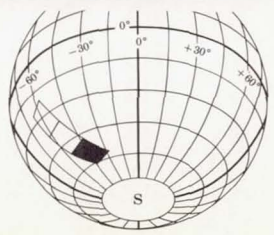
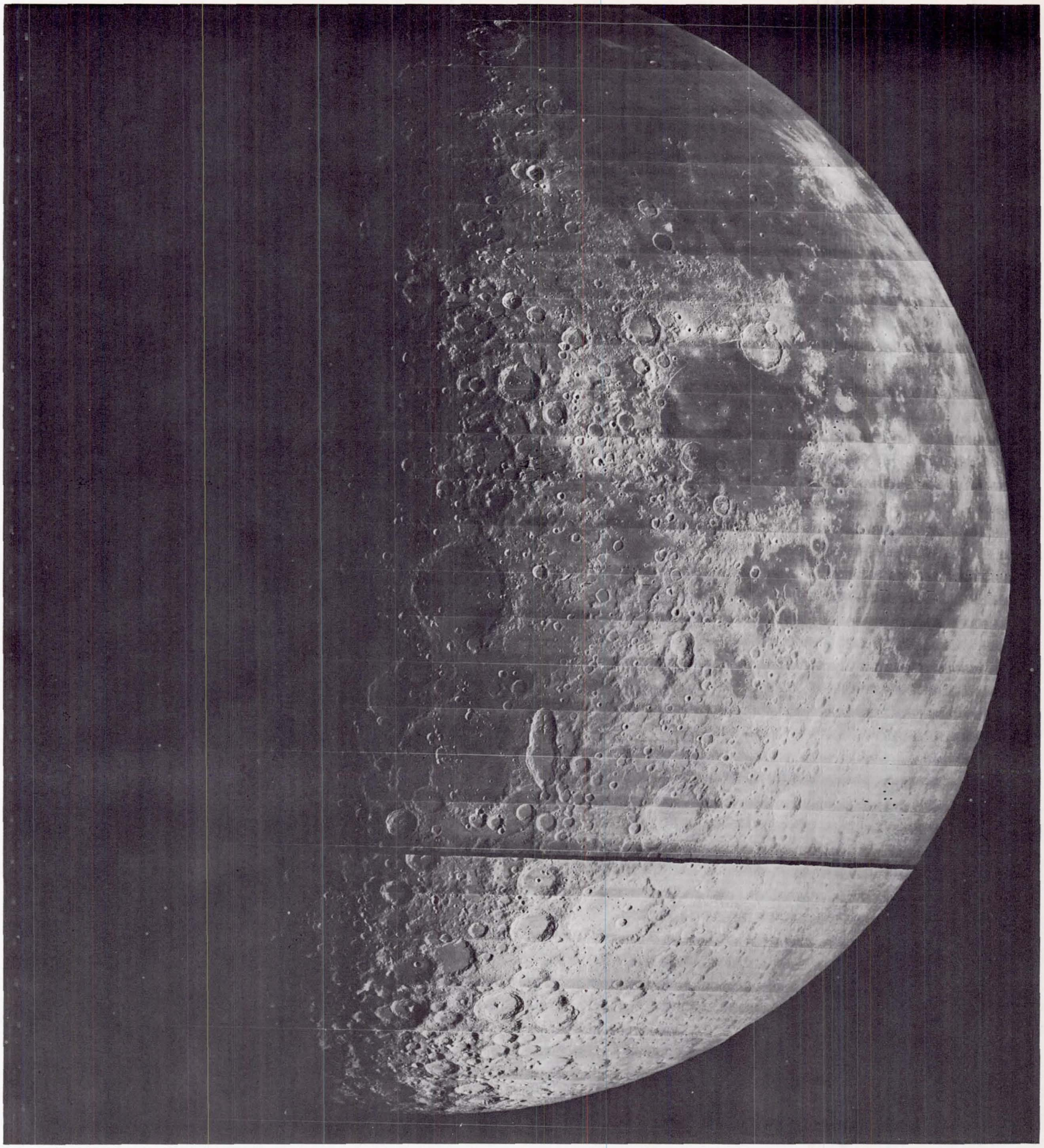
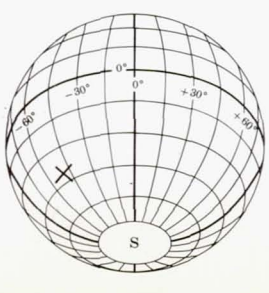



PLATE 374

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15






MARE HUMORUM ..... J5
MARE NUBIUM ..... L7
OCEANUS PROCELLARUM .... H2

1 CENTIMETER ≈ 96 KILOMETERS




PHOTO NO. IV-155-M

CENTER COORDINATES ..... LONG. −48.8
LAT. −42.4
NORTH DEVIATION (DEG.) ..... 24.3
SUN ANGLE ..... 72.
SPACECRAFT ALTITUDE (KM) ..... 3011.0

PLATE 375

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-155-H3

ENTER COORDINATES ..... LONG. —48.89
LAT. —42.41
ORTH DEVIATION (DEG.) ..... 24.37
JN ANGLE ..... 72.9
PACECRAFT ALTITUDE (KM) ..... 3011.10

N

1 CENTIMETER ≈ 13 KILOMETERS

FOURIER .... F7
VIETA ..... J4

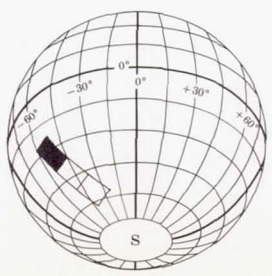
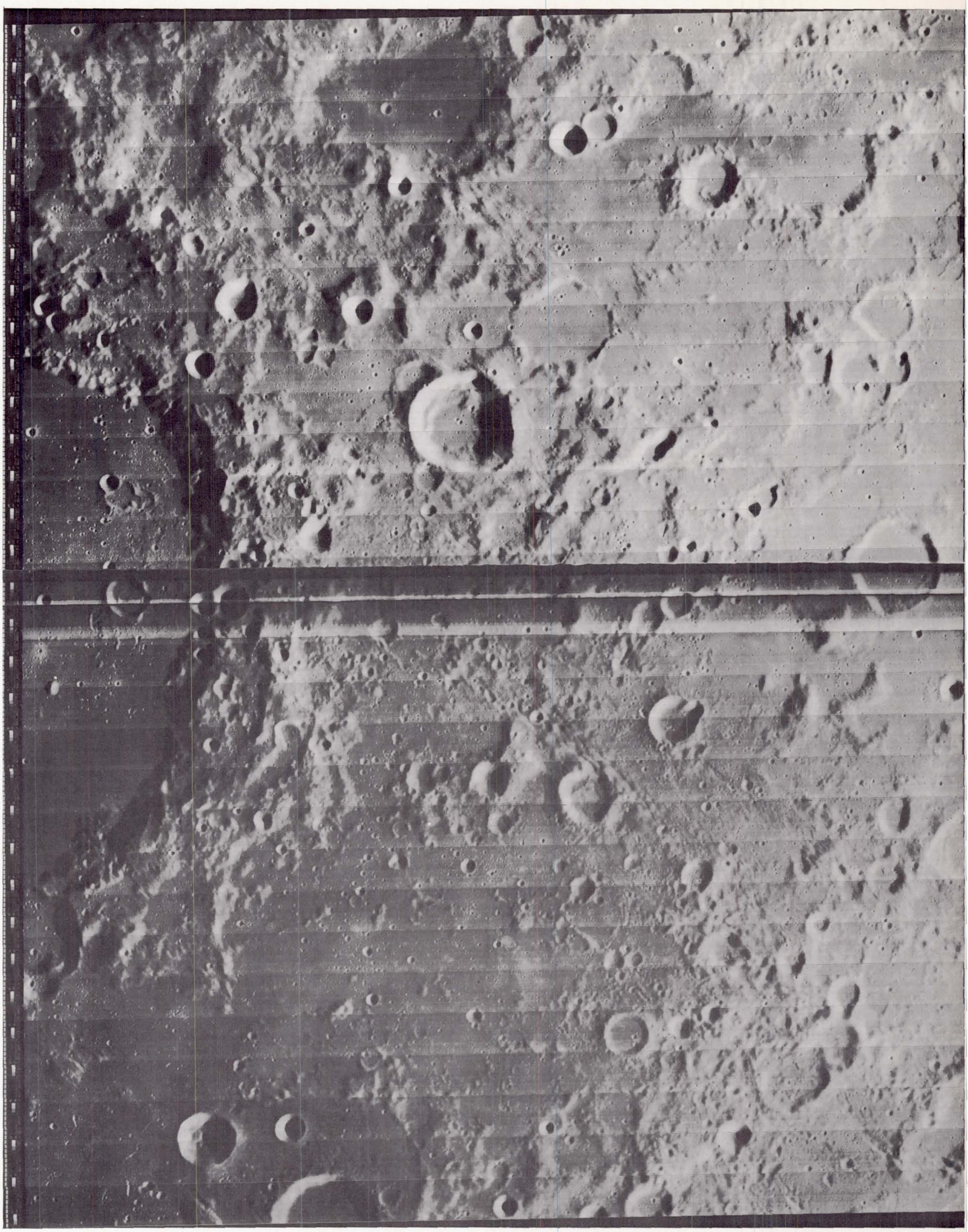
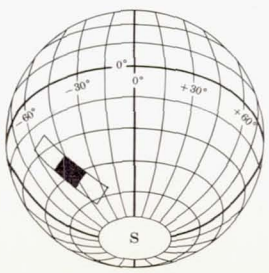



PLATE 376

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






DREBBL ..... F6
SCHICKARD .... A8

1 CENTIMETER ≈ 13 KILOMETERS

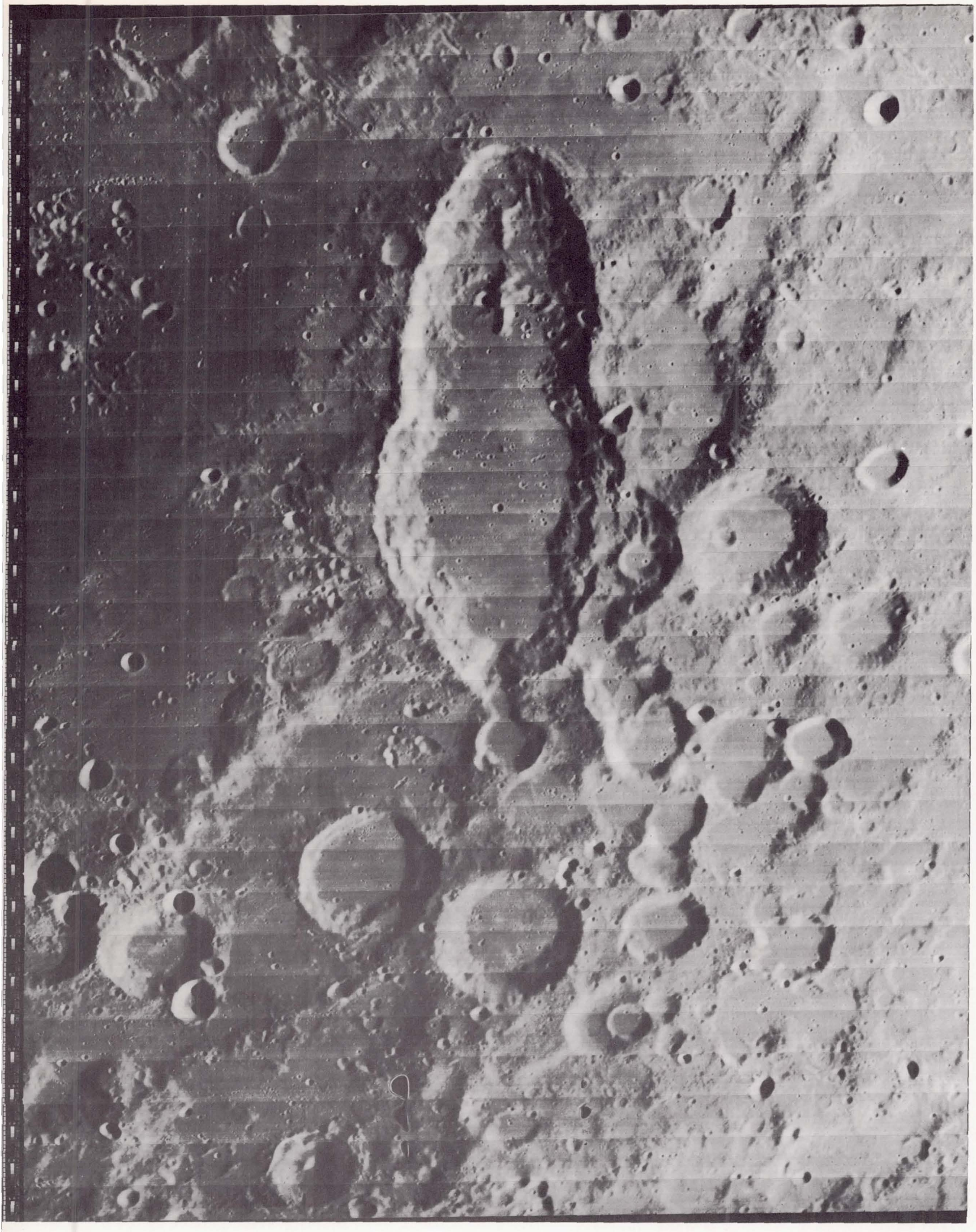



PHOTO NO. IV-155-H2

CENTER COORDINATES ..... LONG. —48.8
LAT. —42.4
NORTH DEVIATION (DEG.) ..... 24.3
SUN ANGLE ..... 72.9
SPACECRAFT ALTITUDE (KM) ..... 3011.1

PLATE 377

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO IV-155-H1

CENTER COORDINATES ..... LONG. —48.89
LAT. —42.41
NORTH DEVIATION (DEG.) ..... 24.37
SUN ANGLE ..... 72.9
SPACECRAFT ALTITUDE (KM) ..... 3011.10

N

1 CENTIMETER ≈ 13 KILOMETERS

BAYER ..... C7
NOGGERATH .... H1
ROST ..... F12
SCHILLER ..... F6
WEIGEL ..... K12

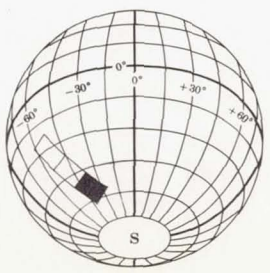
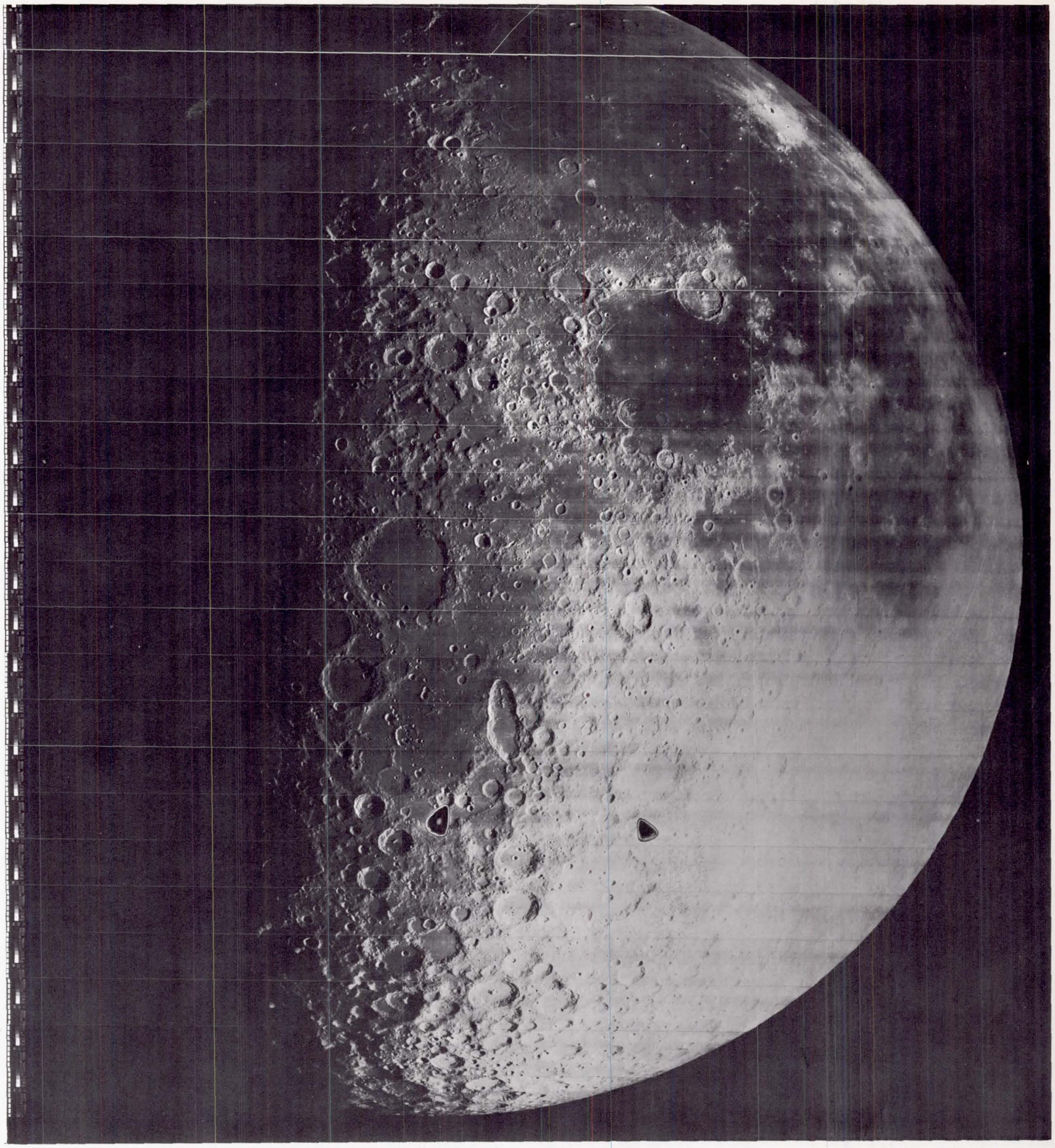
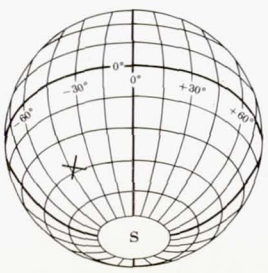



PLATE 378




MARE HUMORUM ..... H5
MARE NUBIUM ..... L6
OCEANUS PROCELLARUM ..... G1

1 CENTIMETER ≈ 96 KILOMETERS




PHOTO NO. IV-148-M

CENTER COORDINATES ..... LONG. —41.3
LAT —42.9
NORTH DEVIATION (DEG.) ..... 25.
SUN ANGLE ..... 72
SPACECRAFT ALTITUDE (KM) .... 3009.3

PLATE 379

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-148-H3

CENTER COORDINATES ..... LONG.—41.38
LAT. —42.95
NORTH DEVIATION (DEG.) ..... 25.10
SUN ANGLE ..... 72.1
SPACECRAFT ALTITUDE (KM) ..... 3009.38

N

1 CENTIMETER ≈ 13 KILOMETERS

CLAUSIUS ..... E15
FOURIER ..... L4
PALMIERI ..... E4

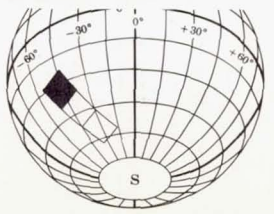
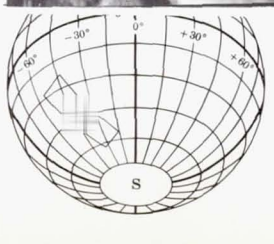



PLATE 380

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






SCHILLER .... C15

1 CENTIMETER≈ 13 KILOMETERS

N

PHOTO NO. IV-148-H2

CENTER COORDINATES ..... LONG. —41.3
LAT. —42.9
NORTH DEVIATION (DEG.) ..... 25.1
SUN ANGLE ..... 72.
SPACECRAFT ALTITUDE (KM) ..... 3009.3

PLATE 381

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

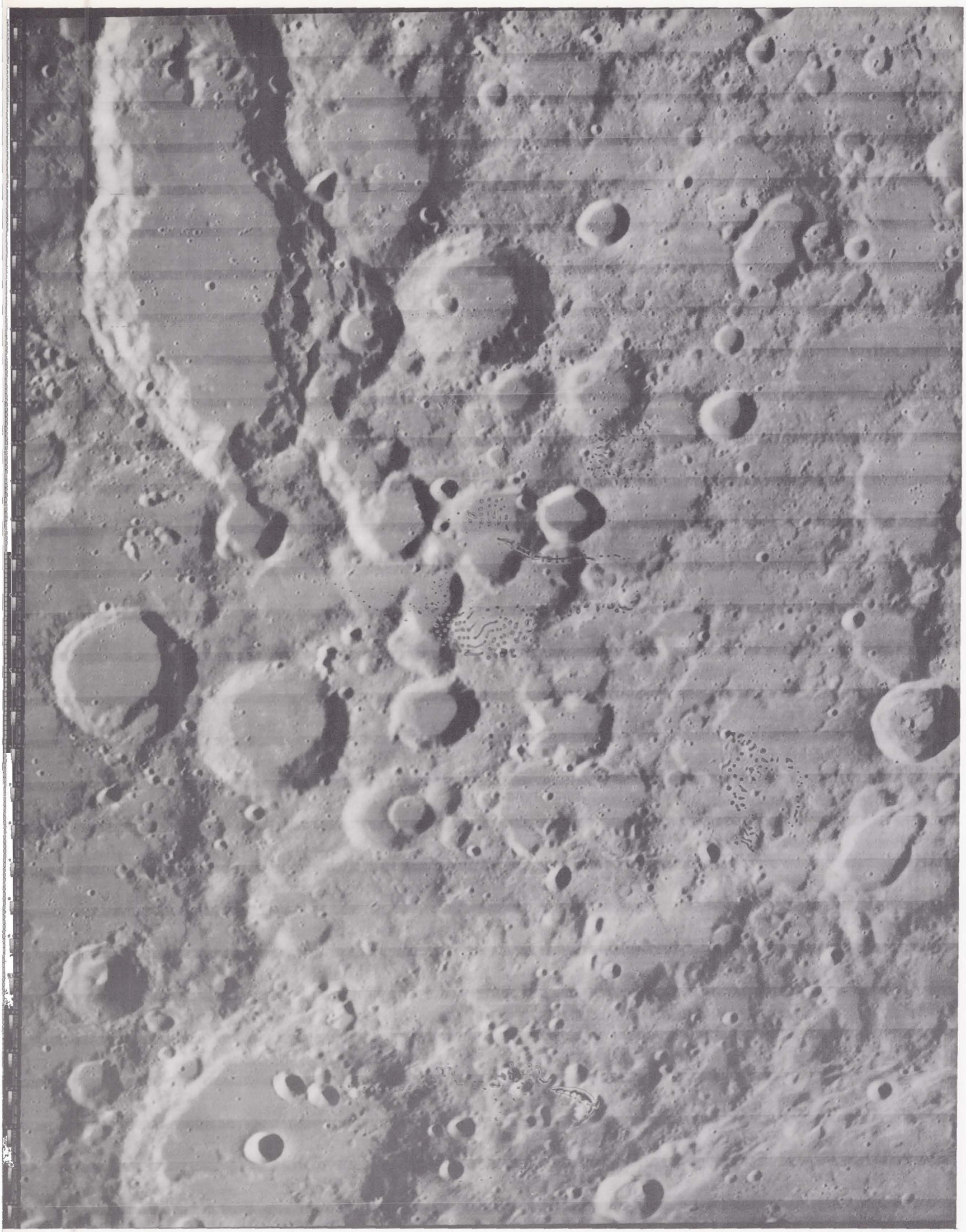


PHOTO NO. IV-148-H1

ENTER COORDINATES ..... LONG.—41.38
LAT. —42.95
ORTH DEVIATION (DEG.) ..... 25.10
UN ANGLE ..... 72.1
PACECRAFT ALTITUDE (KM) ..... 3009.38

N

1 CENTIMETER ≈13 KILOMETERS

BAYER ..... G4
CLAVIUS ..... B15
ROST ..... J9
SCHEINER ..... J14
SCHILLER ..... K4

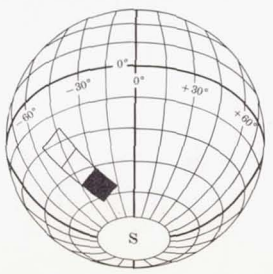
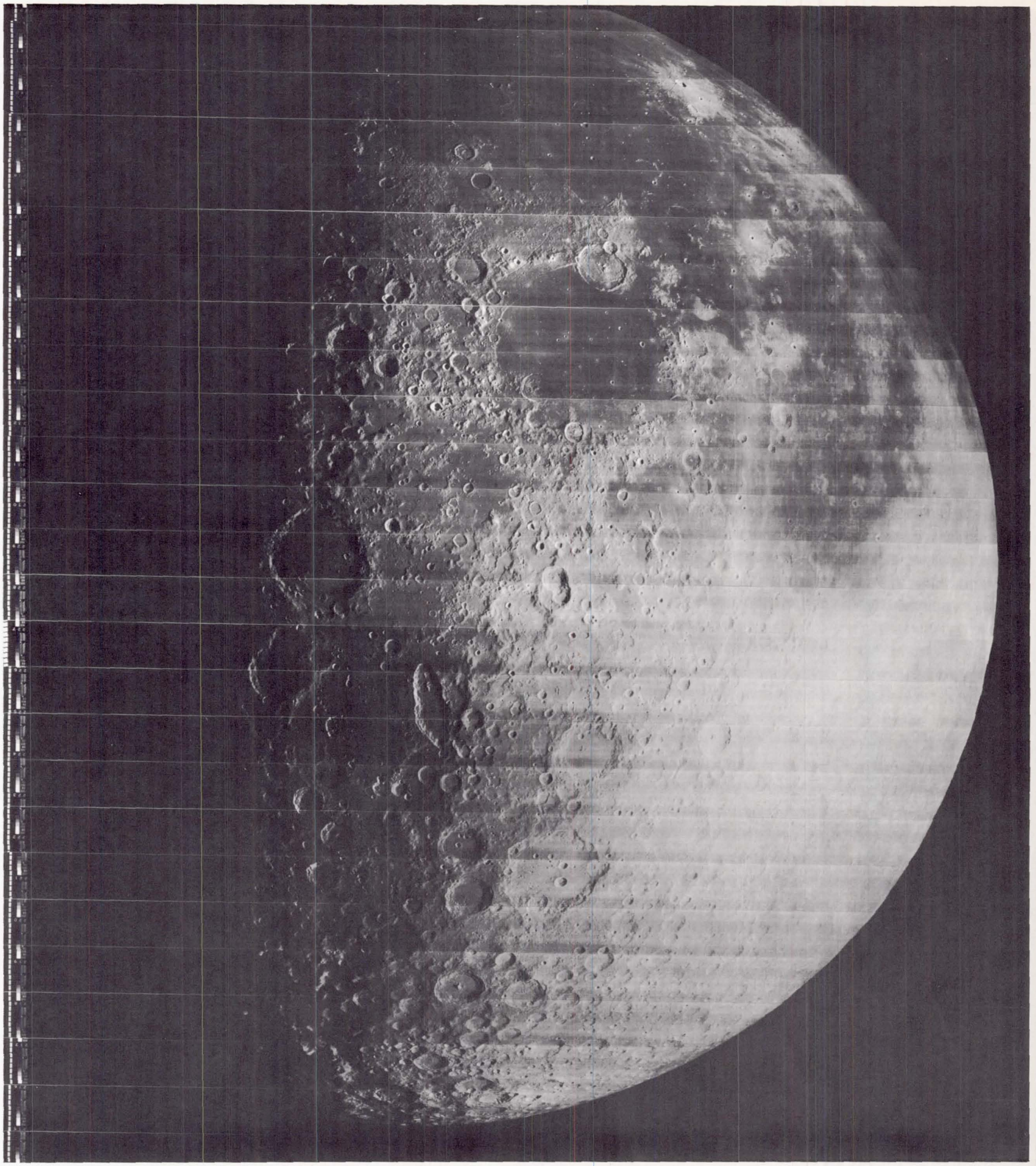
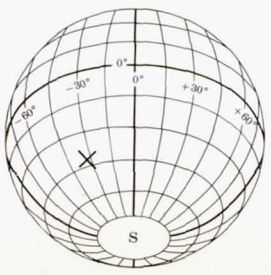



PLATE 382






MARE HUMORUM ..... G4
MARE NUBIUM ..... K6
OCEANUS PROCELLARUM ..... F1

1 CENTIMETER ≈ 86 KILOMETERS

PHOTO NO. IV-142-M

CENTER COORDINATES ..... LONG. −33.3
LAT. −42.0
NORTH DEVIATION (DEG.) ..... 25.8
SUN ANGLE ..... 70.
SPACECRAFT ALTITUDE (KM) ..... 3006.5

PLATE 383

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-142-H3

CENTER COORDINATES ..... LONG. −33.37
LAT. −42.04
NORTH DEVIATION (DEG.) ..... 25.91
SUN ANGLE ..... 70.5
SPACECRAFT ALTITUDE (KM) ..... 3006.60

N

1 CENTIMETER ≈ 13 KILOMETERS

DOPPELMAYER .... G4
LEE ..... G7
PUISEUX ..... D5
VITELLO ..... D8

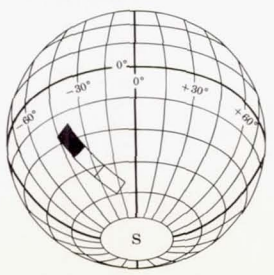
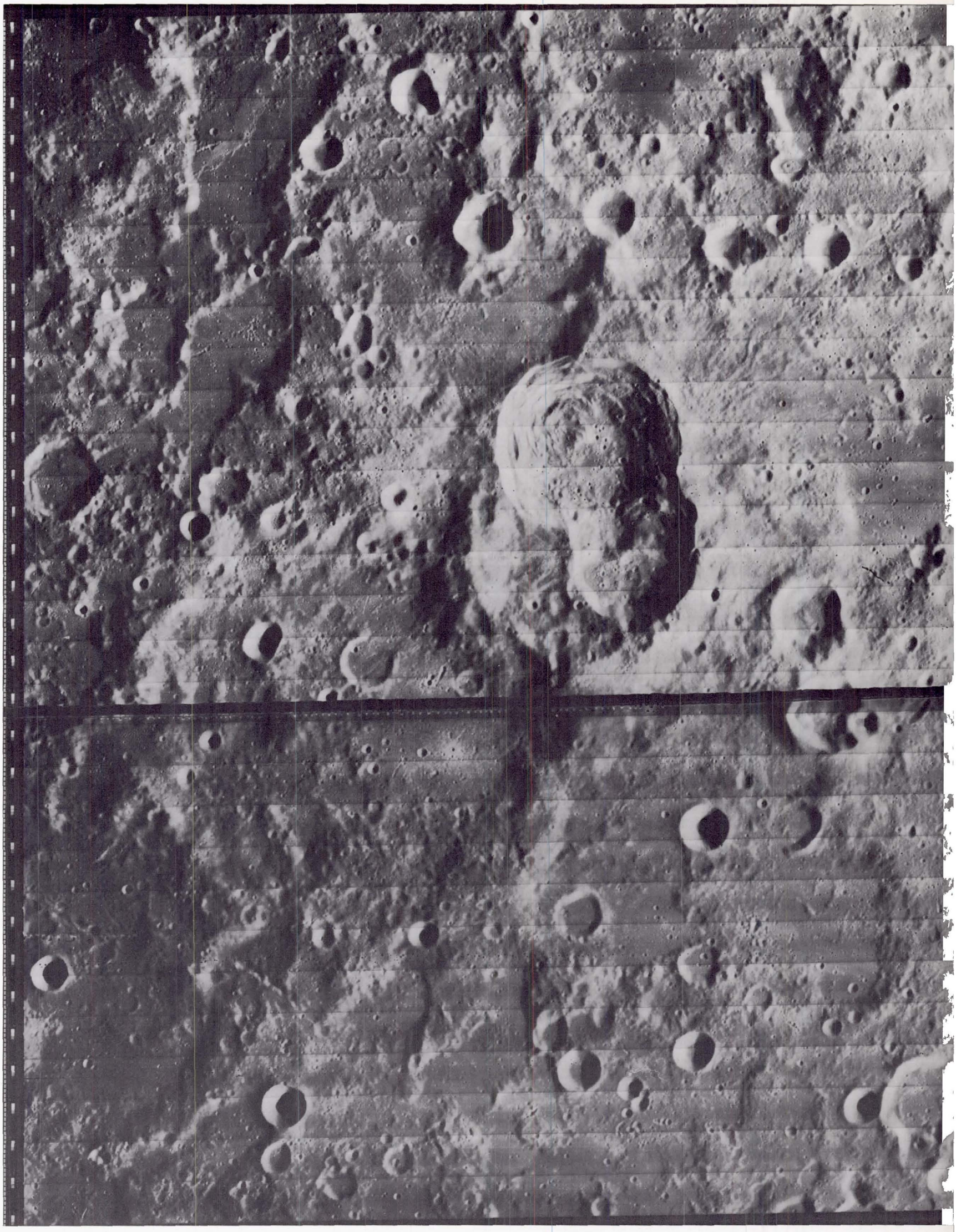
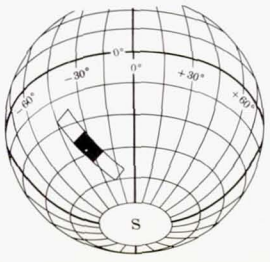



PLATE 384

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






EPIMENIDES .... K8
HAINZEL ..... G7
MEE ..... D8

1 CENTIMETER ≈ 13 KILOMETERS

N

PHOTO NO. IV-142-H2

CENTER COORDINATES ..... LONG. −33.3°
LAT. −42.0°
NORTH DEVIATION (DEG.) ..... 25.9°
SUN ANGLE ..... 70.5°
SPACECRAFT ALTITUDE (KM) ..... 3006.6

PLATE 385

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

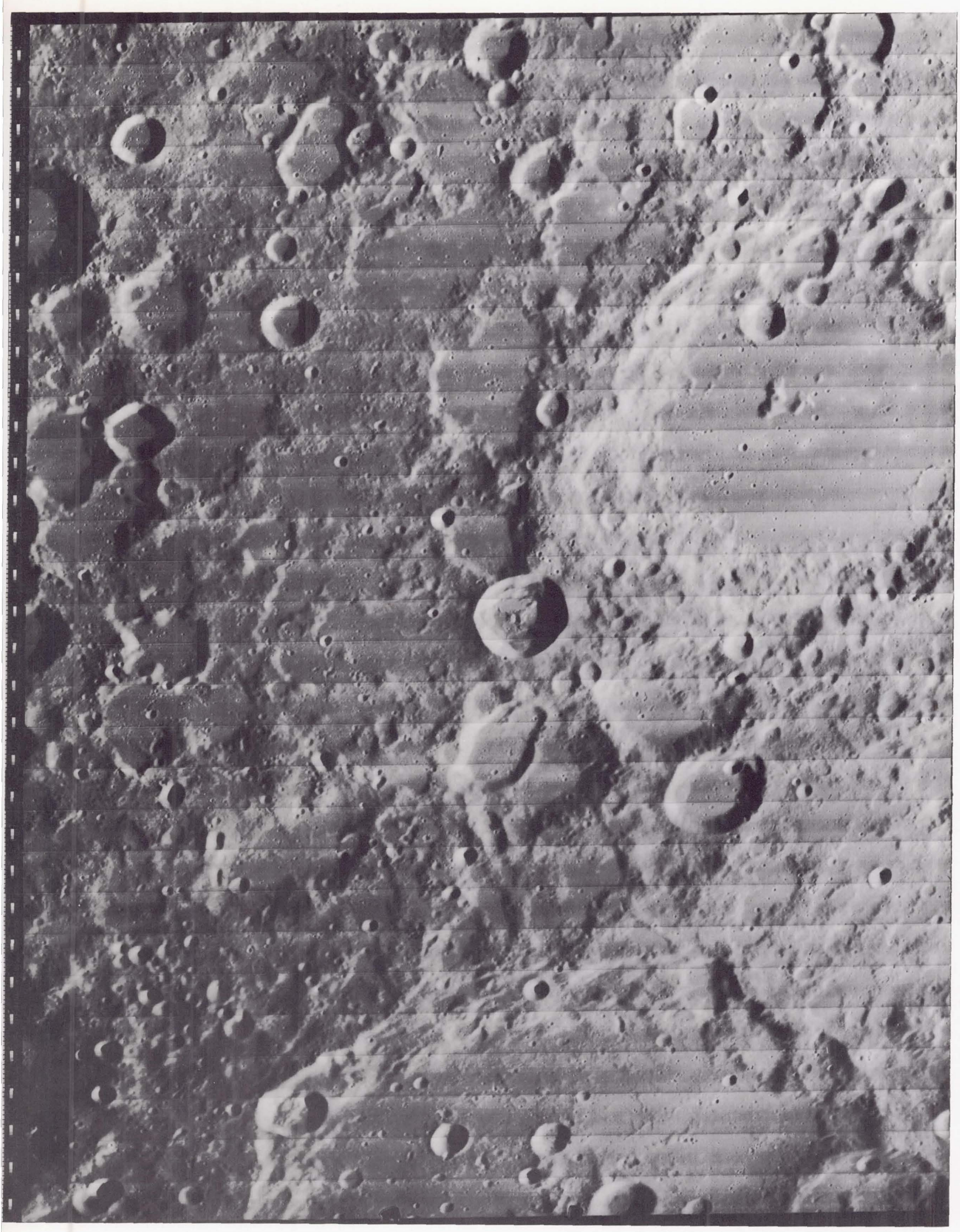


PHOTO NO. IV-142-H1

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −33.37 |
| | LAT. −42.04 |
| NORTH DEVIATION (DEG.) ..... | 25.91 |
| SUN ANGLE ..... | 70.5 |
| SPACECRAFT ALTITUDE (KM) ..... | 3006.60 |

N

1 CENTIMETER ≈13 KILOMETERS

| | |
|---|---|
| CLAVIUS ..... | F14 |
| LONGOMONOTANUS ... | B6 |
| SCHEINER ..... | J13 |

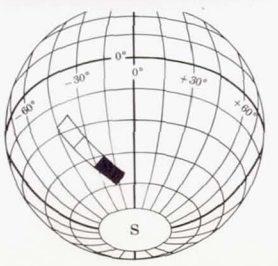
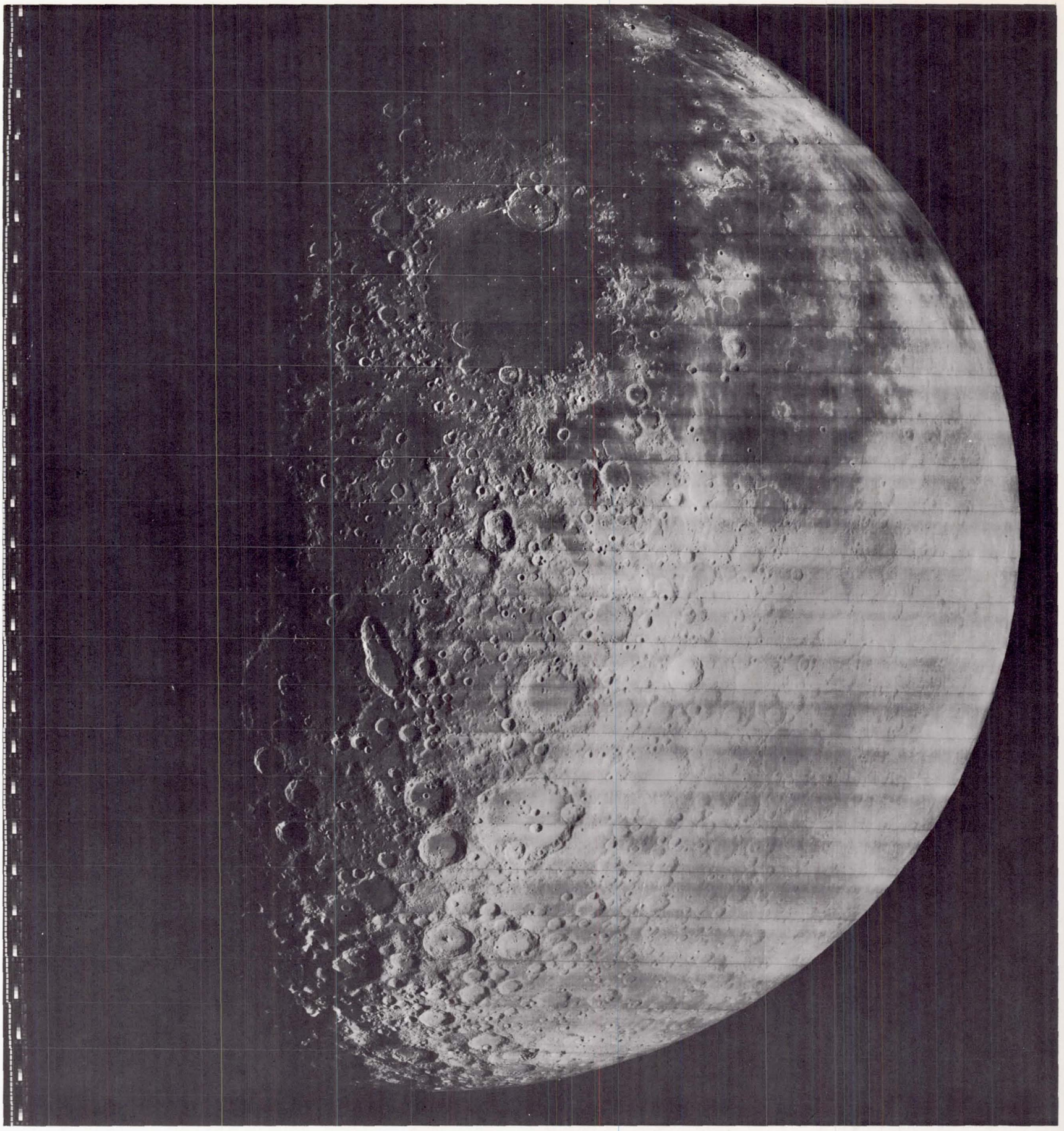
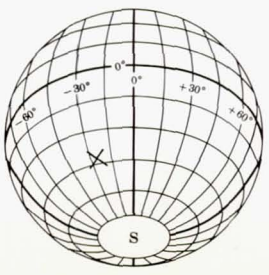



PLATE 386

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM ..... F4
MARE NUBIUM ..... K4
OCEANUS PROCELLARUM ..... F1

1 CENTIMETER ≈ 96 KILOMETERS

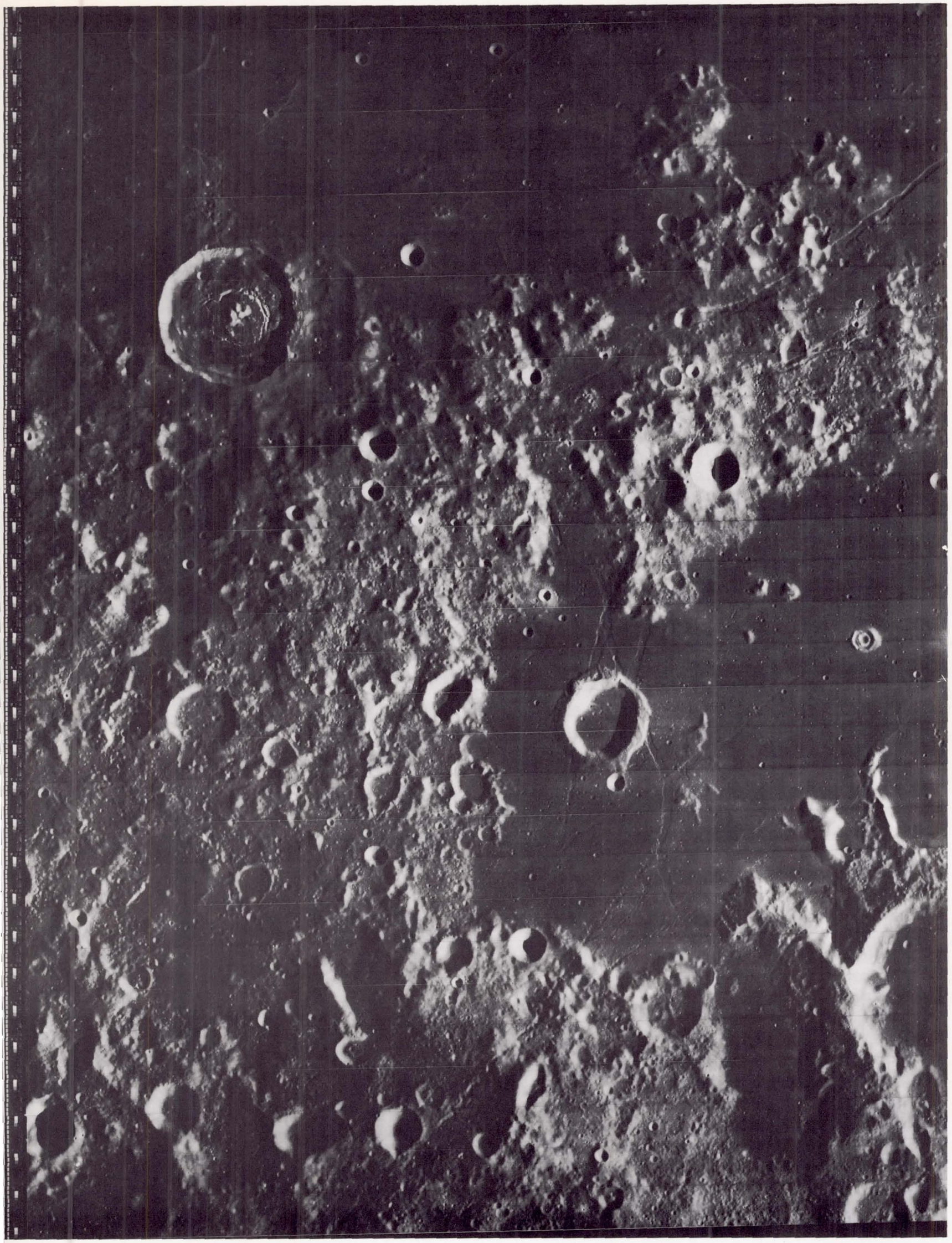



PHOTO NO. IV-136-M

CENTER COORDINATES ..... LONG. —27.40
LAT. —42.64
NORTH DEVIATION (DEG.) ..... 25.98
SUN ANGLE ..... 70.8
SPACECRAFT ALTITUDE (KM) ..... 3002.94

PLATE 387

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-136-H3

CENTER COORDINATES ..... LONG. —27.40
LAT. —42.65
NORTH DEVIATION (DEG.) ..... 25.98
SUN ANGLE ..... 70.8
SPACECRAFT ALTITUDE (KM) ..... 3002.96

N

1 CENTIMETER ≈ 13 KILOMETERS

CAPUANUS ....A13
VITELLO .....J4

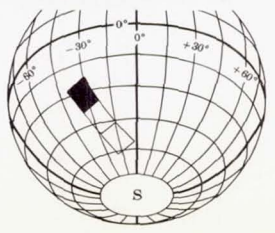
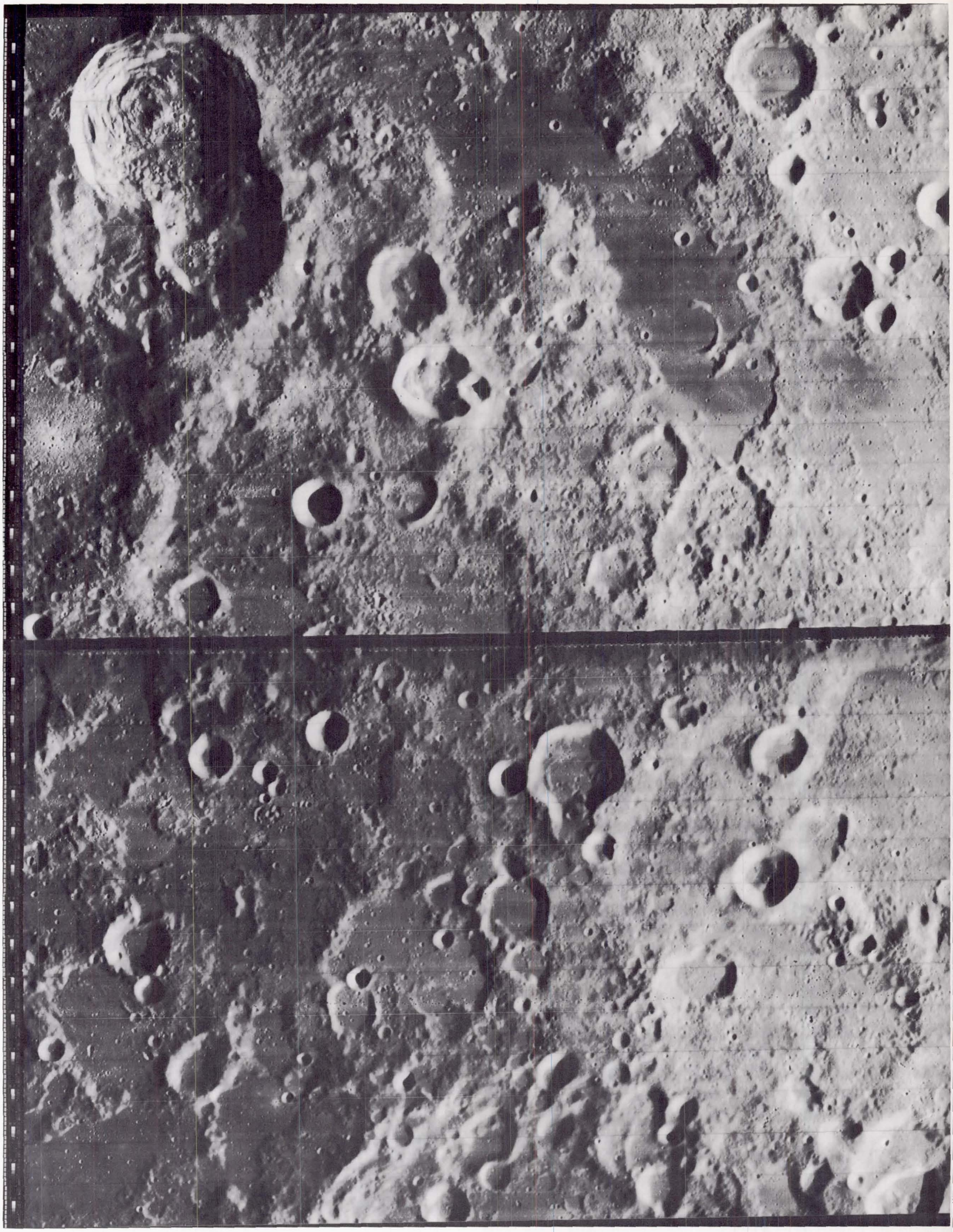
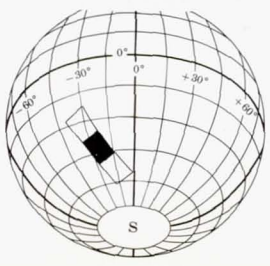



PLATE 388

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






EPIMENIDES ..... E4
HAINZEL ..... B3
LAGALLA ..... J11
MEE ..... A6
MONTANARI ..... K13
WILHELM ..... L10

1 CENTIMETER ≈ 13 KILOMETERS

N

PHOTO NO. IV-136-H2

CENTER COORDINATES ..... LONG. —27.4°
LAT. —42.6°
NORTH DEVIATION (DEG.) ..... 25.9°
SUN ANGLE ..... 70.
SPACECRAFT ALTITUDE (KM) ..... 3002.9

PLATE 389

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-136-H1

CENTER COORDINATES ..... LONG. —27.40
LAT. —42.65
NORTH DEVIATION (DEG.) ..... 25.98
SUN ANGLE ..... 70.8
SPACECRAFT ALTITUDE (KM) ..... 3002.96

N

1 CENTIMETER ≈13 KILOMETERS

CLAVIUS ..... H13
RUTHERFURD ... H15

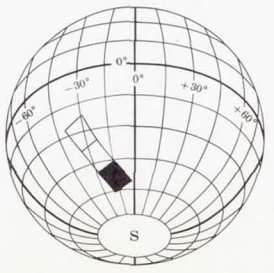
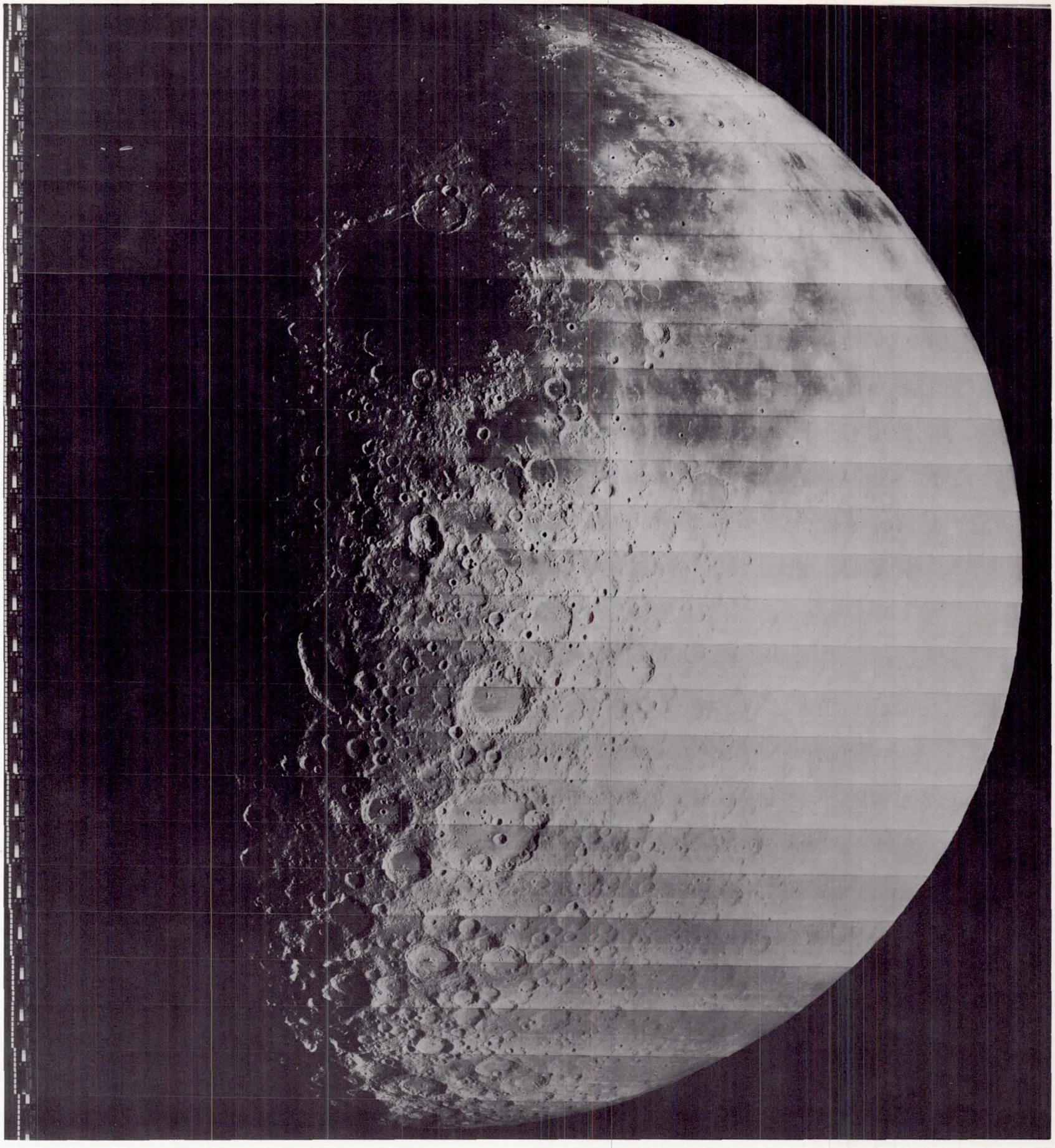
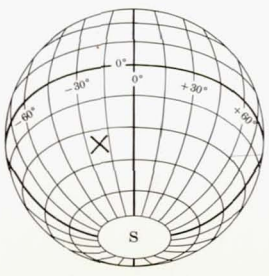



PLATE 390

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM .... E4
MARE NUBIUM ..... J4

1 CENTIMETER ≈ 96 KILOMETERS

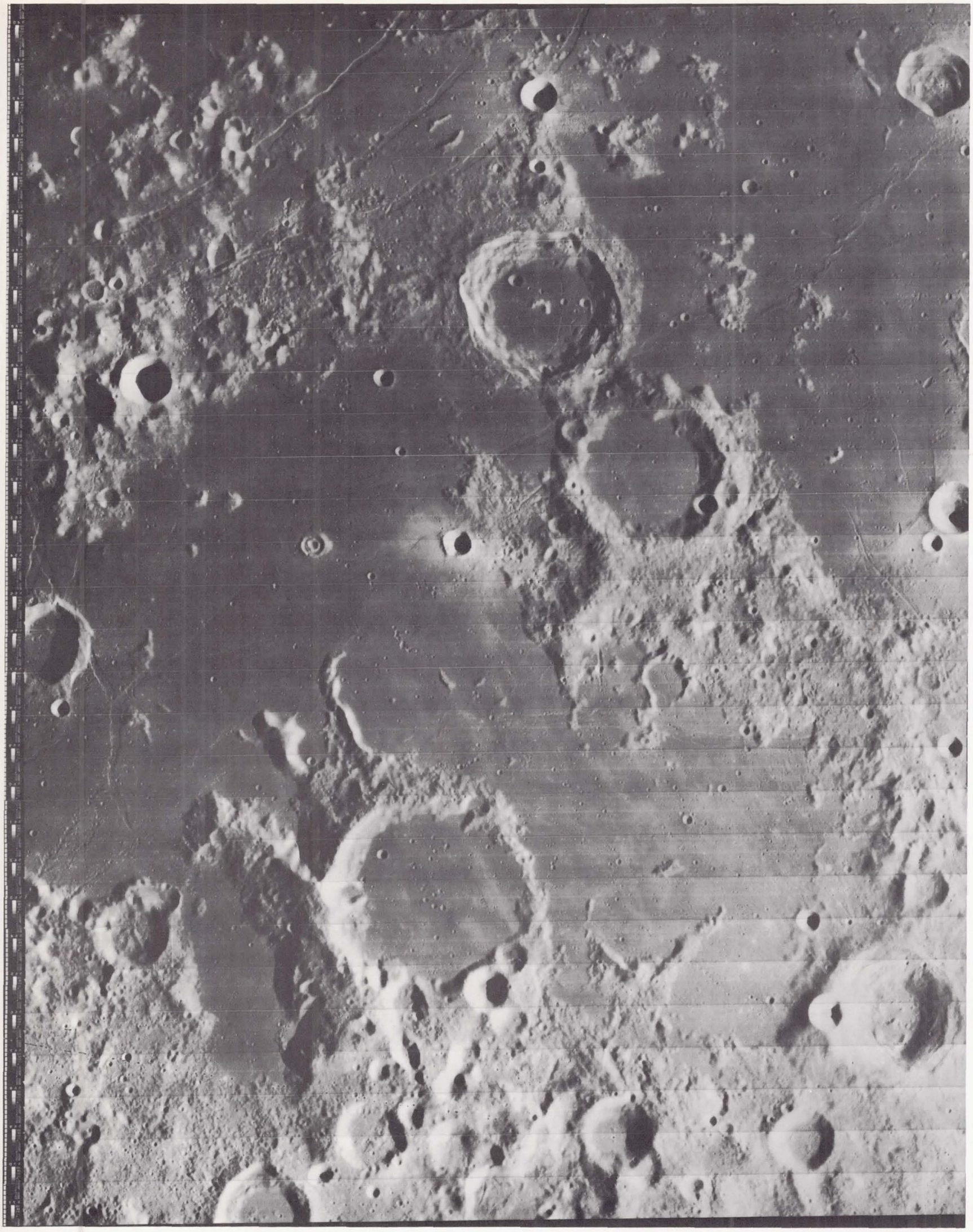
N

PHOTO NO. IV-131-M

CENTER COORDINATES ..... LONG. −23.47
LAT. −36.50
NORTH DEVIATION (DEG.) ..... 23.30
SUN ANGLE ..... 70.5
SPACECRAFT ALTITUDE (KM) ..... 2999.00

PLATE 391

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-131-H3

'TER COORDINATES ..... LONG. −23.47
LAT. −36.50
RTH DEVIATION (DEG.) ..... 23.30
' ANGLE ..... 70.5
CECRAFT ALTITUDE (KM) ..... 2999.02

N

1 CENTIMETER ≈ 13 KILOMETERS

CAMPANUS ..... F4
CAPUANUS ..... G12
CICHUS ..... B13
ELGER ..... L12
KOING ..... A2
MERCATOR ..... E6

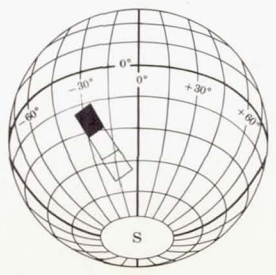
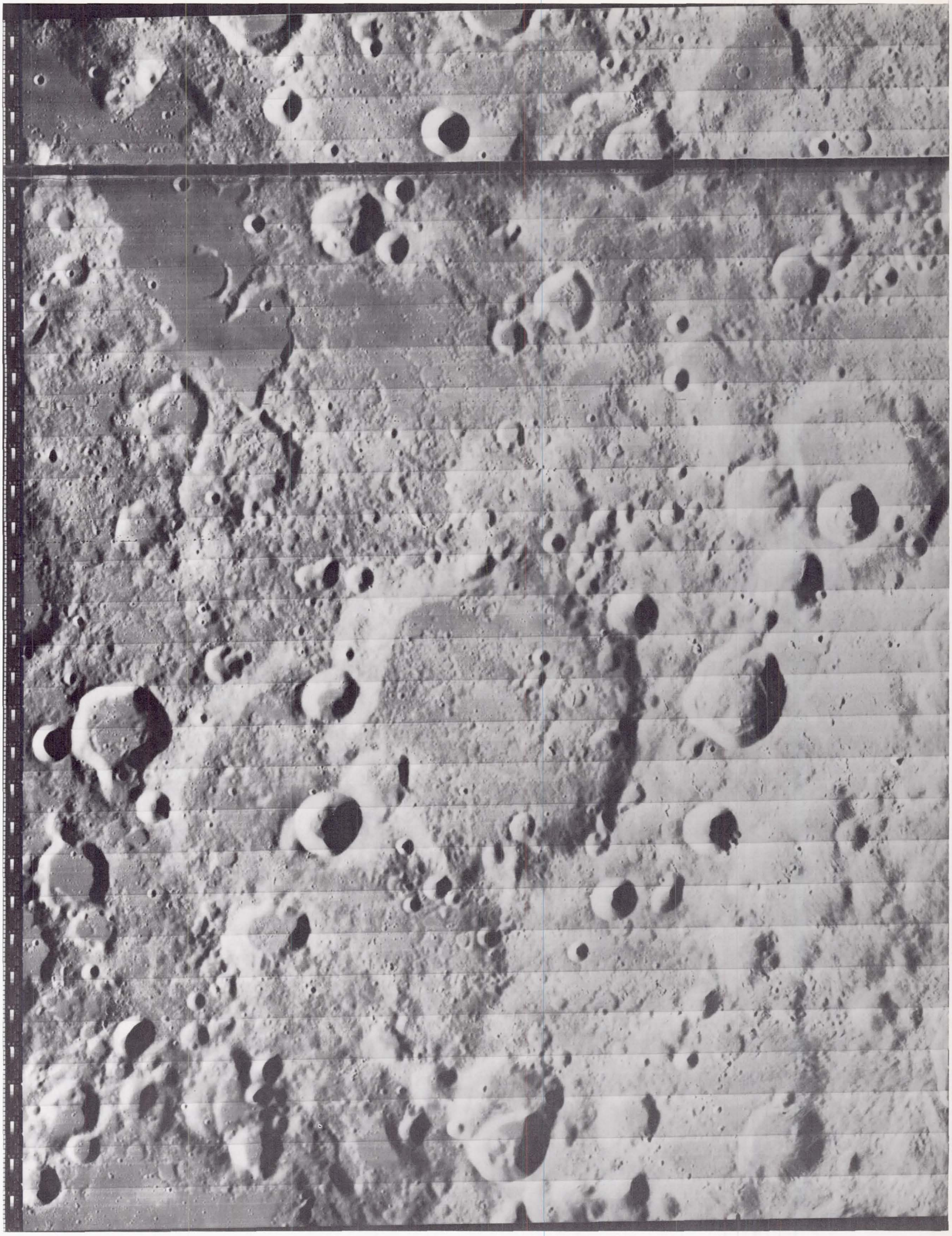
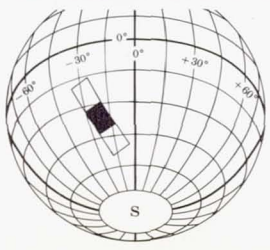



PLATE 392

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HAIDINGER ..... E3
MONTANARI .... E13
WILHELM ..... G9

1 CENTIMETER≈ 13 KILOMETERS

N

PHOTO NO. IV-131-H2

CENTER COORDINATES ..... LONG. −2
LAT. −3
NORTH DEVIATION (DEG.) ..... 2
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 299

PLATE 393

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

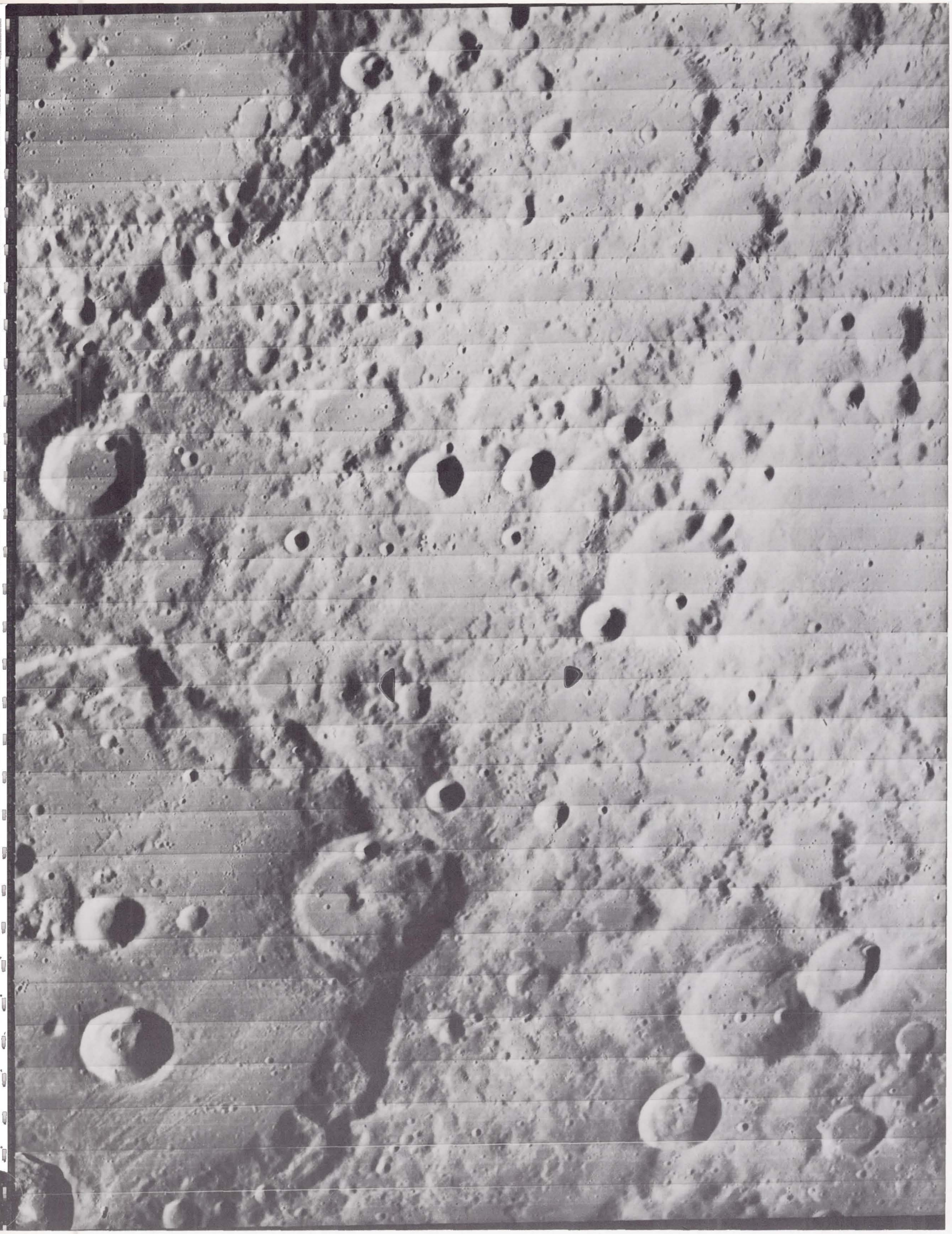


PHOTO NO. IV-131-H1

TER COORDINATES ..... LONG. −23.47
LAT. −36.50
RTH DEVIATION (DEG.) ..... 23.30
ANGLE ..... 70.5
CECRAFT ALTITUDE (KM) ..... 2999.00

N

1 CENTIMETER ≈ 13 KILOMETERS

CLAUIUS ..... L11
DELUC ..... C13
LONGOMONTANUS ..... K1
*RUTHERFURD* ..... M15

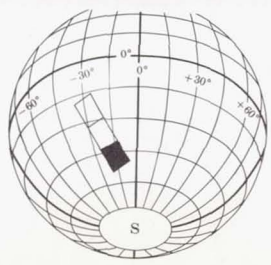
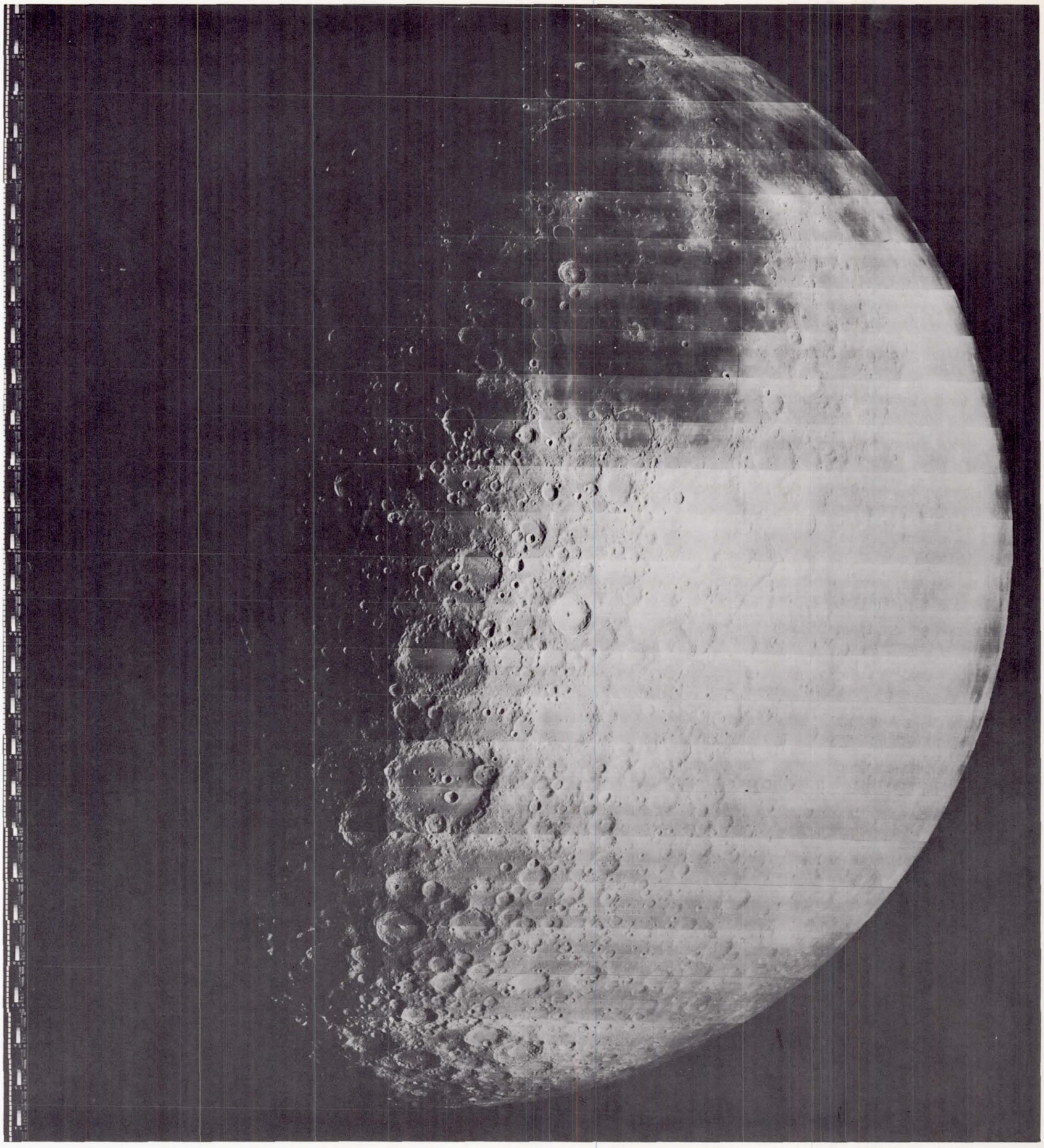
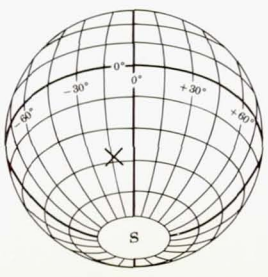



PLATE 394

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE NUBIUM ..... H4

1 CENTIMETER ≈ 96 KILOMETERS

N

PHOTO NO. IV-124-M

CENTER COORDINATES ..... LONG. −14.0
LAT. −43.0
NORTH DEVIATION (DEG.) ..... 25.9
SUN ANGLE ..... 70.
SPACECRAFT ALTITUDE (KM) ..... 2994.4

PLATE 395

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-124-H3

ENTER COORDINATES ..... LONG. −14.08
LAT. −43.00
ORTH DEVIATION (DEG.) ..... 25.97
UN ANGLE ..... 70.1
PACECRAFT ALTITUDE (KM) ..... 2994.47

N

1 CENTIMETER ≈ 13 KILOMETERS

CICHUS ..... G9
MERCATOR ..... L2
WURZELBAUER .... B12

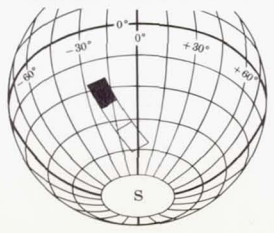
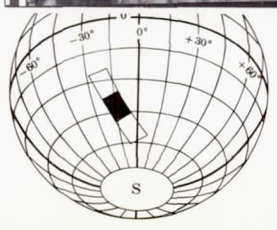



PLATE 396

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






TYCHO ..... J9
WILHELM .... B6

1 CENTIMETER ≈ 13 KILOMETERS




PHOTO NO. IV-124-H2

CENTER COORDINATES ..... LONG. −14.0
LAT. −43.0
NORTH DEVIATION (DEG.) .....25.9
SUN ANGLE ..... 70.1
SPACECRAFT ALTITUDE (KM) ..... 2994.4

PLATE 397

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-124-H1

ENTER COORDINATES ..... LONG. −14.08
LAT. −43.00
ORTH DEVIATION (DEG.) ..... 25.97
UN ANGLE ..... 70.1
PACECRAFT ALTITUDE (KM) ..... 2994.47

N

1 CENTIMETER ≈ 13 KILOMETERS

DELUC ..... F10
LILIUS ..... A12
MAGINUS ..... D3

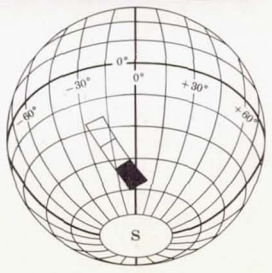
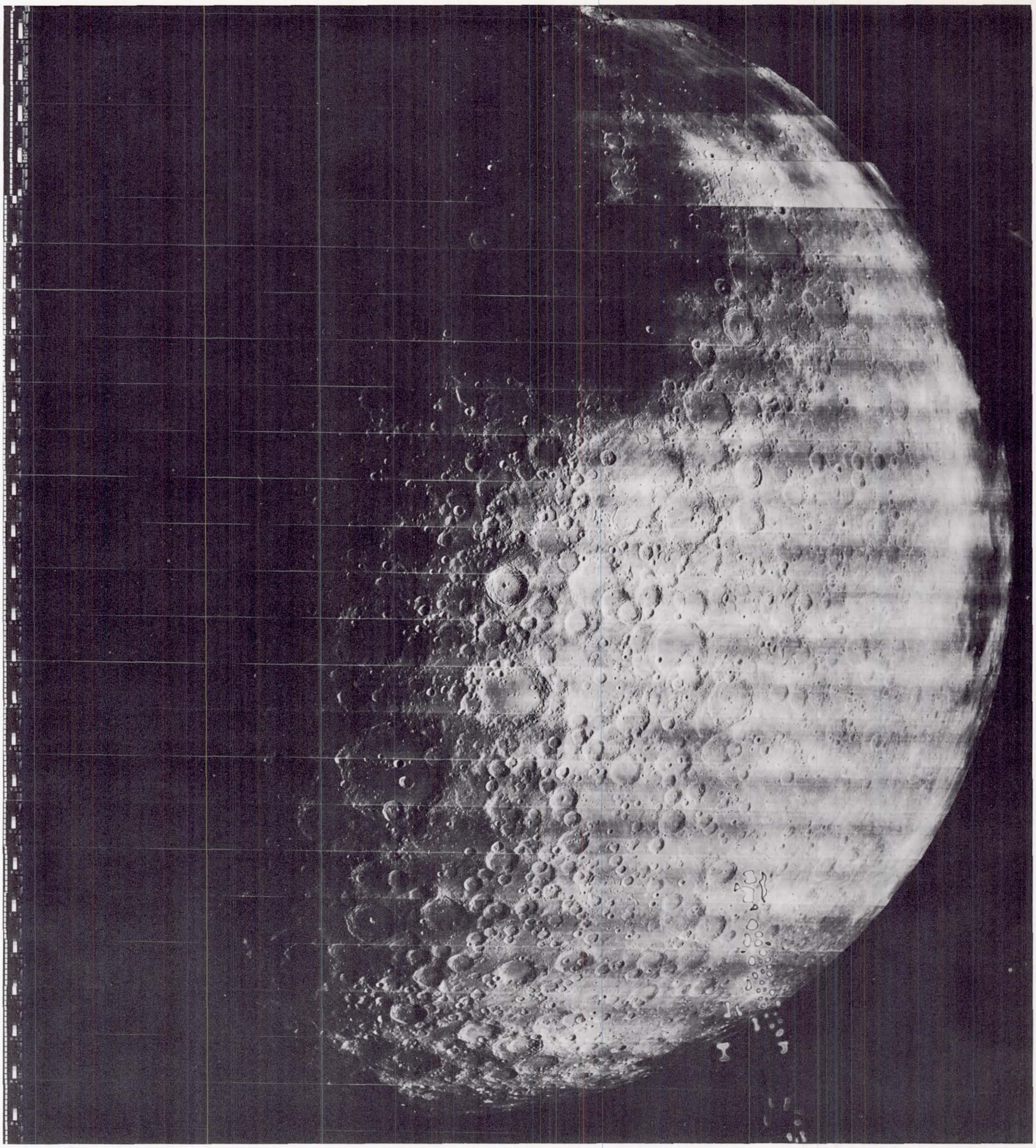
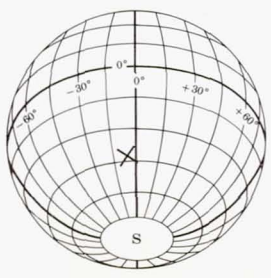



PLATE 398

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE NUBIUM ..... G4

1 CENTIMETER ≈ 95 KILOMETERS

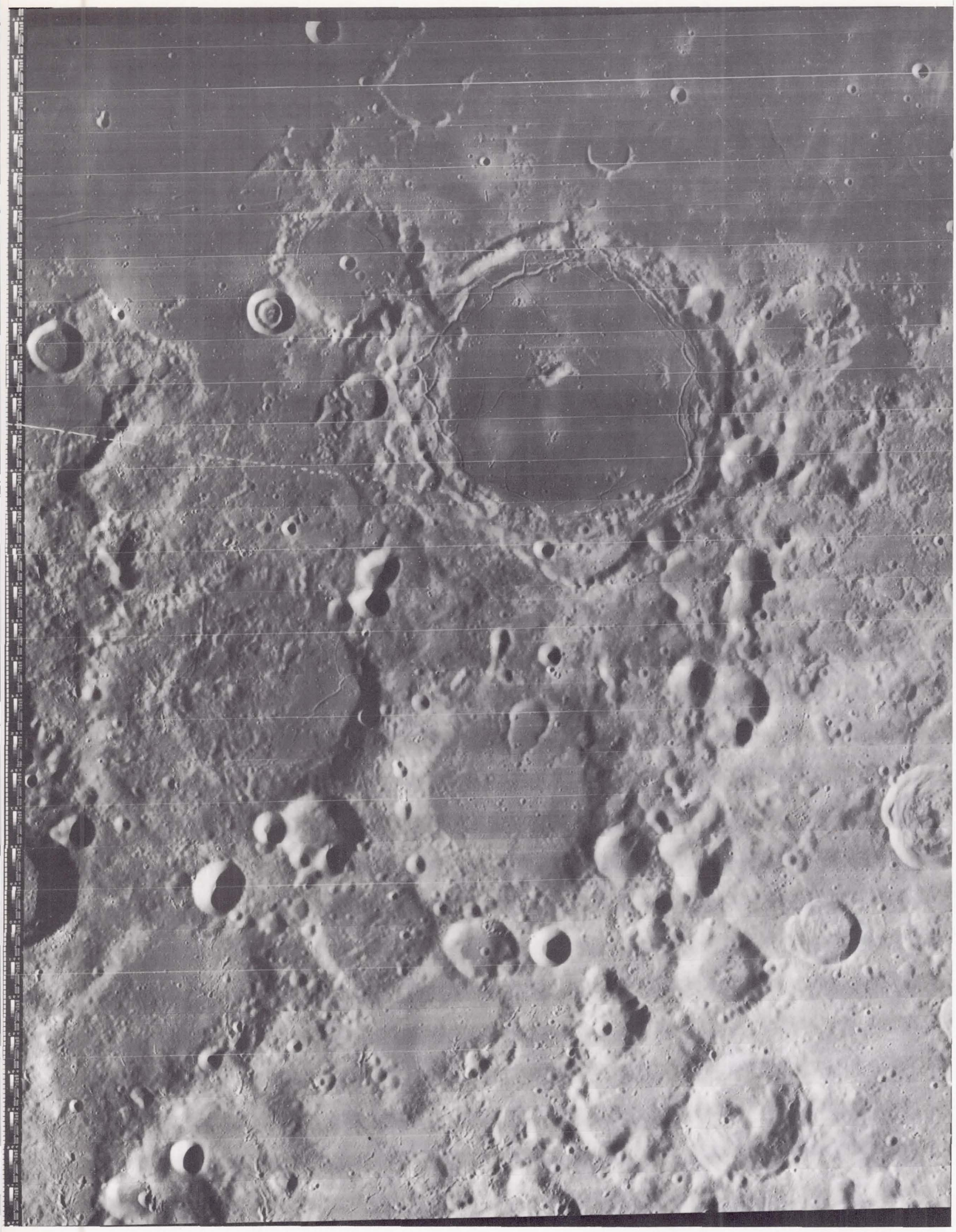
N

PHOTO NO. IV-119-M

CENTER COORDINATES ..... LONG. —7.44
LAT. —42.73
NORTH DEVIATION (DEG.) ..... 25.65
SUN ANGLE ..... 69.7
SPACECRAFT ALTITUDE (KM) ..... 2990.53

PLATE 399

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-119-H3

CENTER COORDINATES ..... LONG. —7.44
LAT. —42.79
NORTH DEVIATION (DEG.) ..... 25.65
SUN ANGLE ..... 69.7
SPACECRAFT ALTITUDE (KM) ..... 2990.55

N

1 CENTIMETER ≈ 13 KILOMETERS

BALL ..... C14
GAURICUS ..... F10
HELL ..... A11
HESIODUS ..... H4
PITATUS ..... E5
WURZELBAUER ... K9

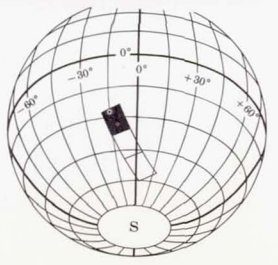
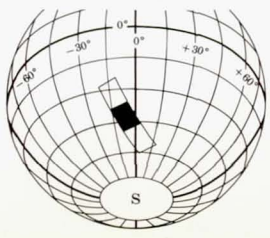



PLATE 400






HUGGINS ..... M8
MAGINUS ..... E15
ORONTIUS ..... L6
PICTET ..... G8
PROCTER ..... G13
SASSERIDES ..... H3
SAUSSURE ..... J10
STREET ..... B11
TYCHO ..... D7

1 CENTIMETER ≈13 KILOMETERS




PHOTO NO. IV-119-H2
CENTER COORDINATES ..... LONG. – 7.44
LAT. – 42.79
NORTH DEVIATION (DEG) ..... 25.65
SUN ANGLE ..... 69.7
SPACECRAFT ALTITUDE (KM) .... 2990.55

PLATE 401

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-119-H1

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | —7.44 |
| | LAT. | —42.79 |
| NORTH DEVIATION (DEG.) | | 25.65 |
| SUN ANGLE | | 69.7 |
| SPACECRAFT ALTITUDE (KM) | | 2990.55 |

N

1 CENTIMETER ≈ 13 KILOMETERS

| | |
|---|---|
| DELUC | K7 |
| HERACLITUS | A4 |
| JACOBI | D14 |
| LILIUS | E10 |
| MAGINUS | J1 |
| ZACH | K15 |

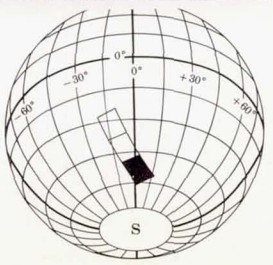
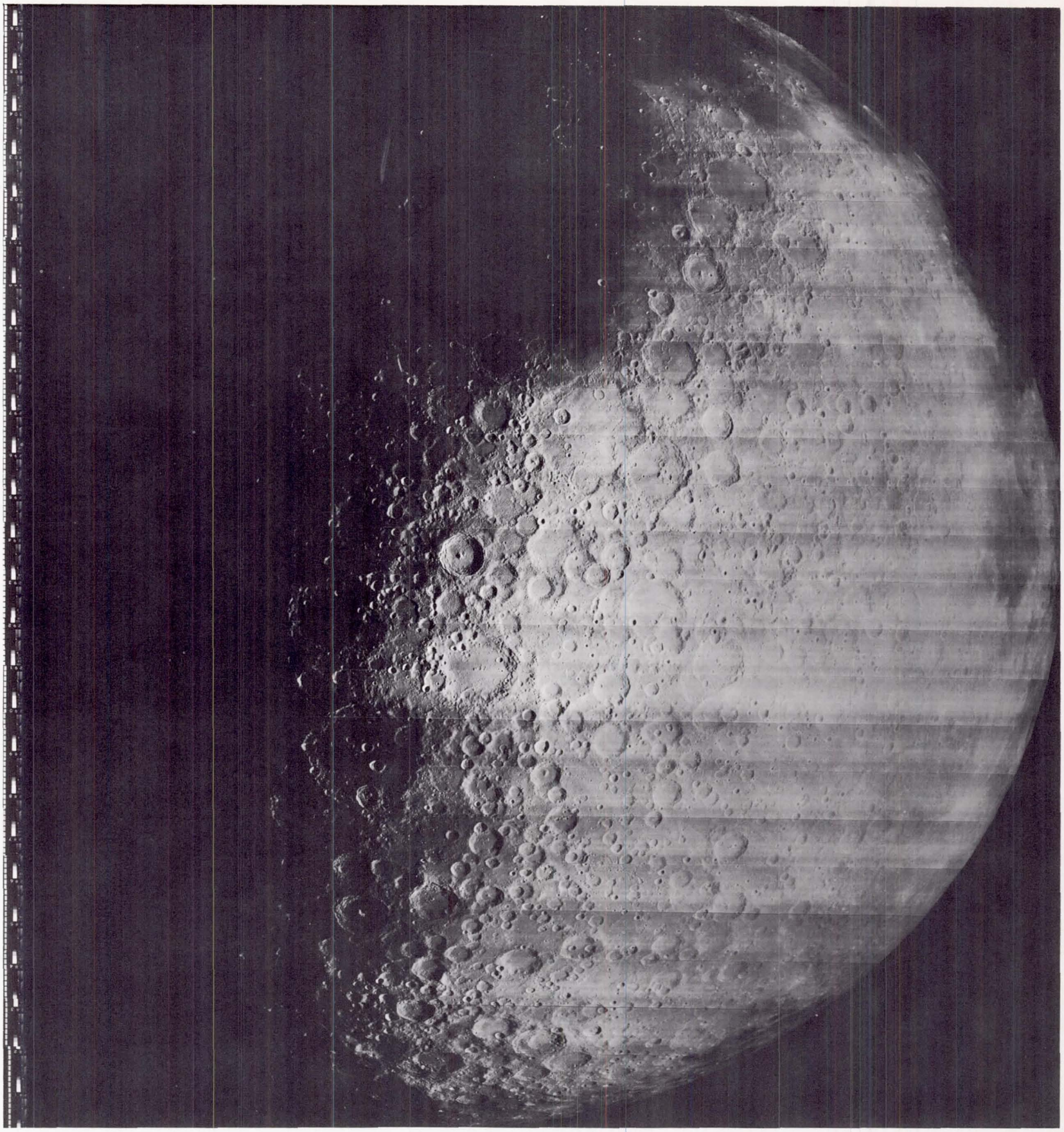
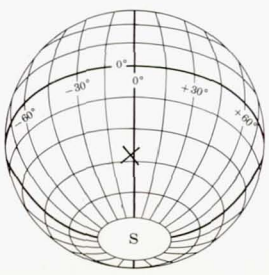



PLATE 402

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE NUBIUM .... F3
SINUS MEDII ..... H1

1 CENTIMETER≈ 95 KILOMETERS

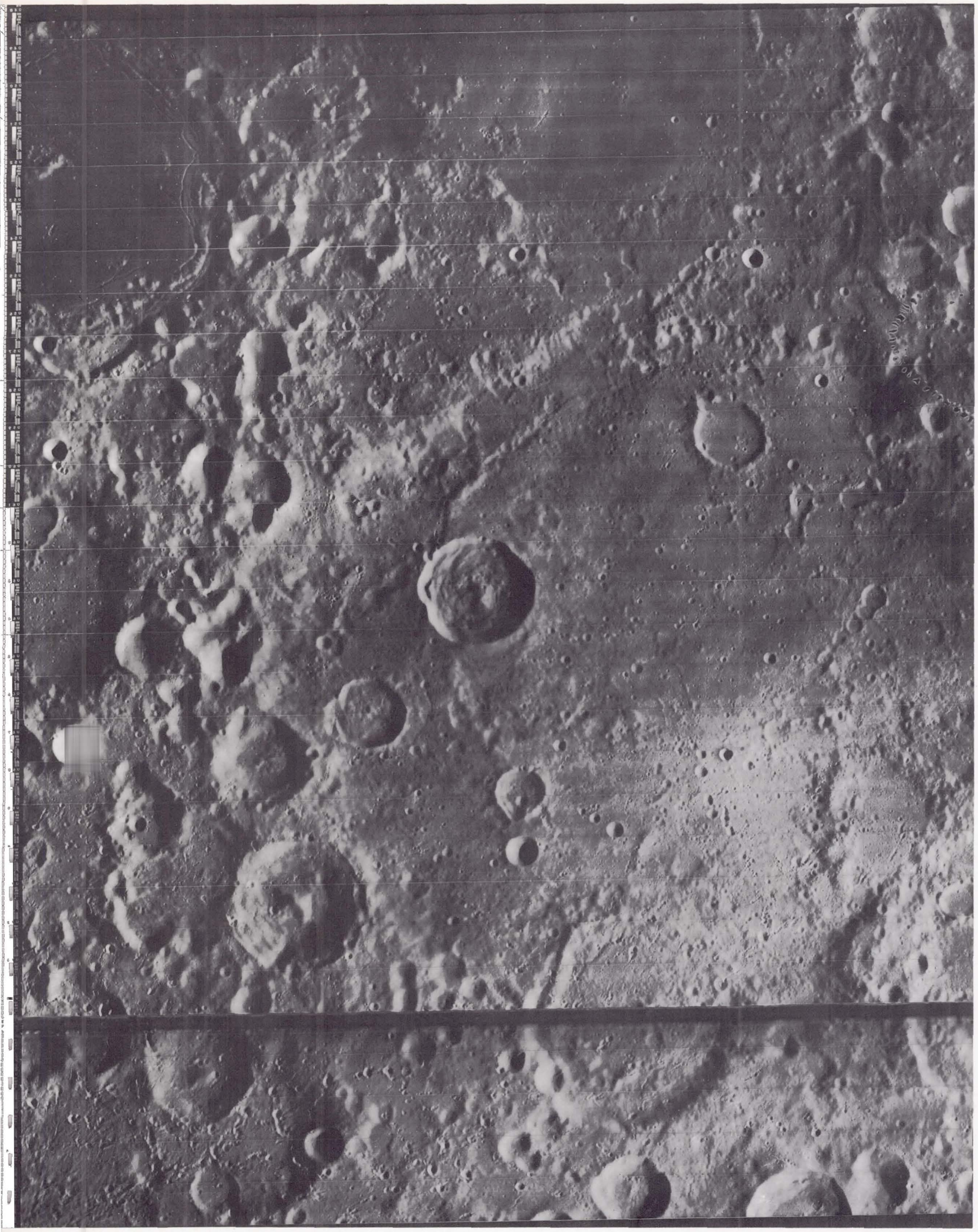



PHOTO NO. IV-112-M

CENTER COORDINATES ..... LONG.—1.35
LAT. —42.57
NORTH DEVIATION (DEG.) ..... 25.68
SUN ANGLE ..... 69.6
SPACECRAFT ALTITUDE (KM) ..... 2986.01

PLATE 403

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-112-H3

ENTER COORDINATES ..... LONG. —1.35
LAT. —42.58
ORTH DEVIATION (DEG.) ..... 25.68
UN ANGLE ..... 69.6
PACECRAFT ALTITUDE (KM) .....2986.04

N

CENTIMETER ≈ 12 KILOMETERS

BALL ..... J11
DESLANDRES .... E8
GAURICUS ..... M8
HELL ..... G8
LEXELL .....E13
PITATUS ..... L2

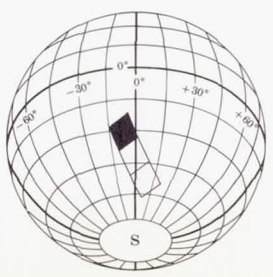
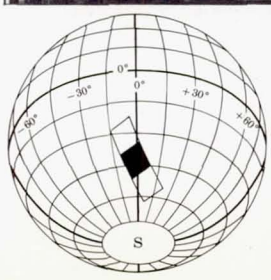



PLATE 404

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HUGGINS ..... H5
LICETUS ..... K15
MAGINUS ..... A14
MILLER ..... L4
NASIREDDIN ..... J6
ORONTIUS ..... E4
PICTET ..... B6
PROCTOR ..... B10
SASSERIDES ..... D2
SAUSSURE ..... E7

1 CENTIMETER≈ 12 KILOMETERS




PHOTO NO. IV-112-H2

CENTER COORDINATES ..... LONG. —1.
LAT. —42.
NORTH DEVIATION (DEG.) ..... 25.
SUN ANGLE ..... 69
SPACECRAFT ALTITUDE (KM) .... 2986.

PLATE 405

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

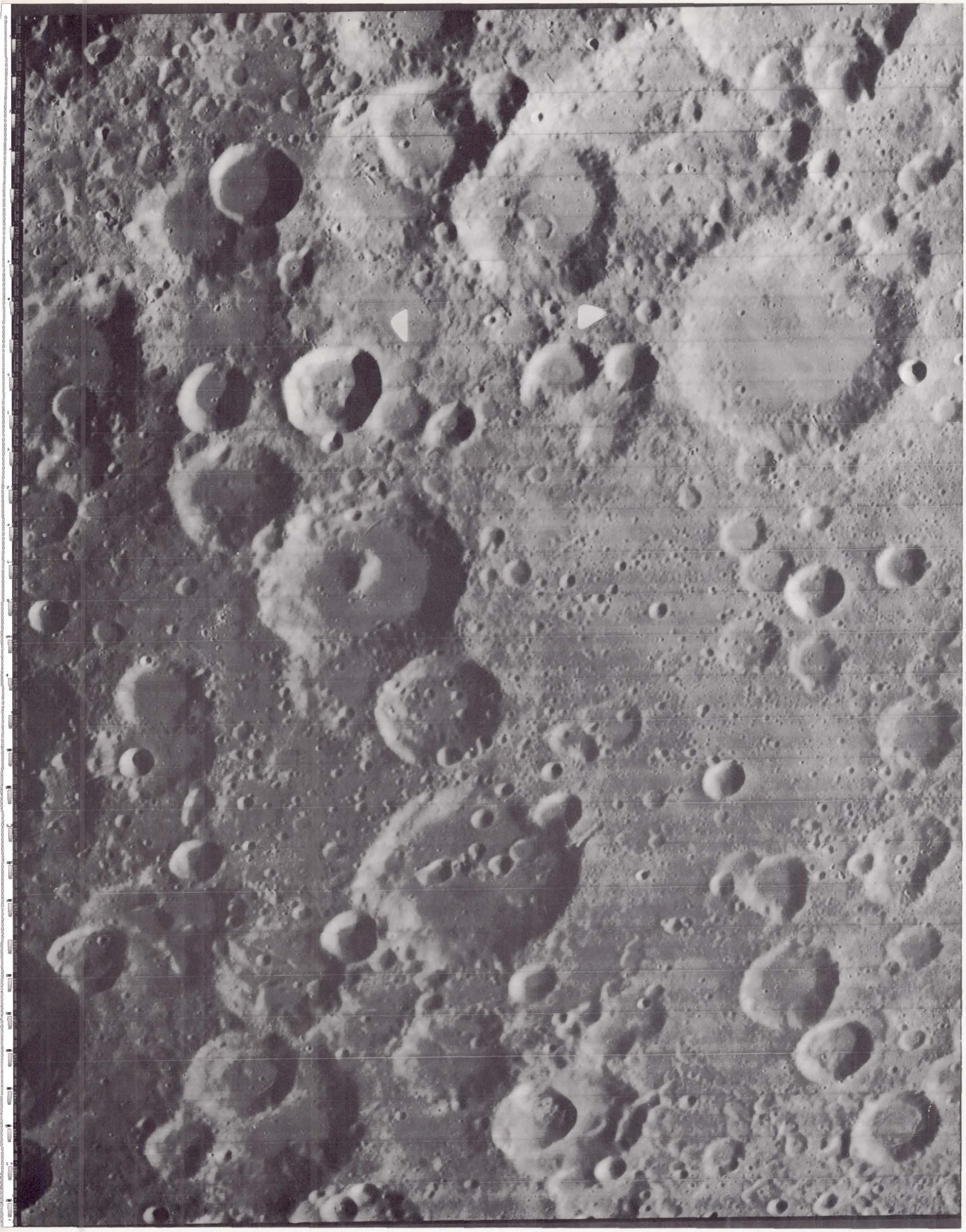


PHOTO NO. IV-112-H1

CENTER COORDINATES ..... LONG. —1.35
LAT. —42.58
NORTH DEVIATION (DEG.) ..... 25.68
SUN ANGLE ..... 69.6
SPACECRAFT ALTITUDE (KM) ..... 2986.04

N

1 CENTIMETER ≈12 KILOMETERS

CUVIER ..... C5
HERACLITUS ..... D2
JACOBI ..... G11
LICETUS ..... C1
LILIUS ..... H7
MAGINUS ..... M1
ZACH ..... M13

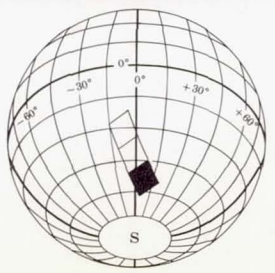
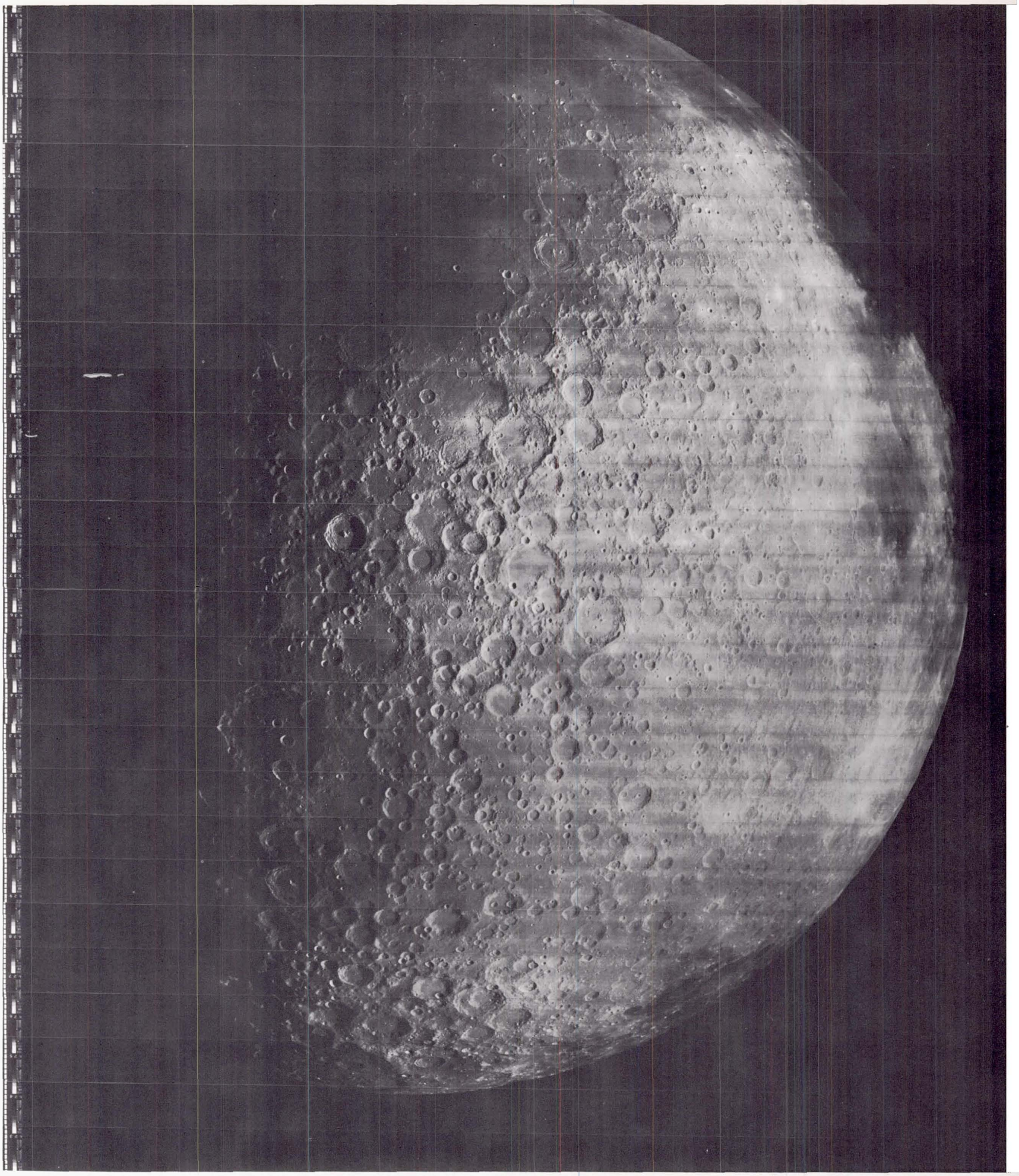
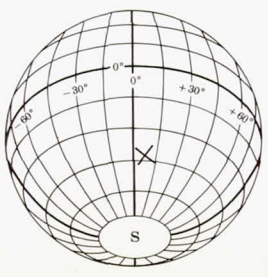



PLATE 406

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CLAVIUS ..... D9
MARE NUBIUM ..... E3
MARE TRANQUILLITATIS .... L3
MARE VAPORUM ..... H1
SINUS AESTUUM ..... F1

1 CENTIMETER ≈ 95 KILOMETERS




PHOTO NO. IV-107-M

CENTER COORDINATES ..... LONG. 6.45
LAT. −42.40
NORTH DEVIATION (DEG.) ..... 25.87
SUN ANGLE ..... 68.4
SPACECRAFT ALTITUDE (KM) ..... 2981.82

PLATE 407

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-107-H3

CENTER COORDINATES ..... LONG. 6.45
LAT. —42.41
NORTH DEVIATION (DEG.) ..... 25.87
SUN ANGLE ..... 68.4
SPACECRAFT ALTITUDE (KM) ..... 2981.85

N

1 CENTIMETER ≈ 12 KILOMETERS

ALIACENSIS ..... A9
BLANCHINUS ..... A2
LEXELL ..... M11
NONIUS ..... D14
PURBACH ..... F1
REGIOMONTANUS .... F4
WALTER ..... G10
WERNER ..... B6

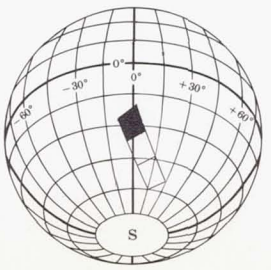
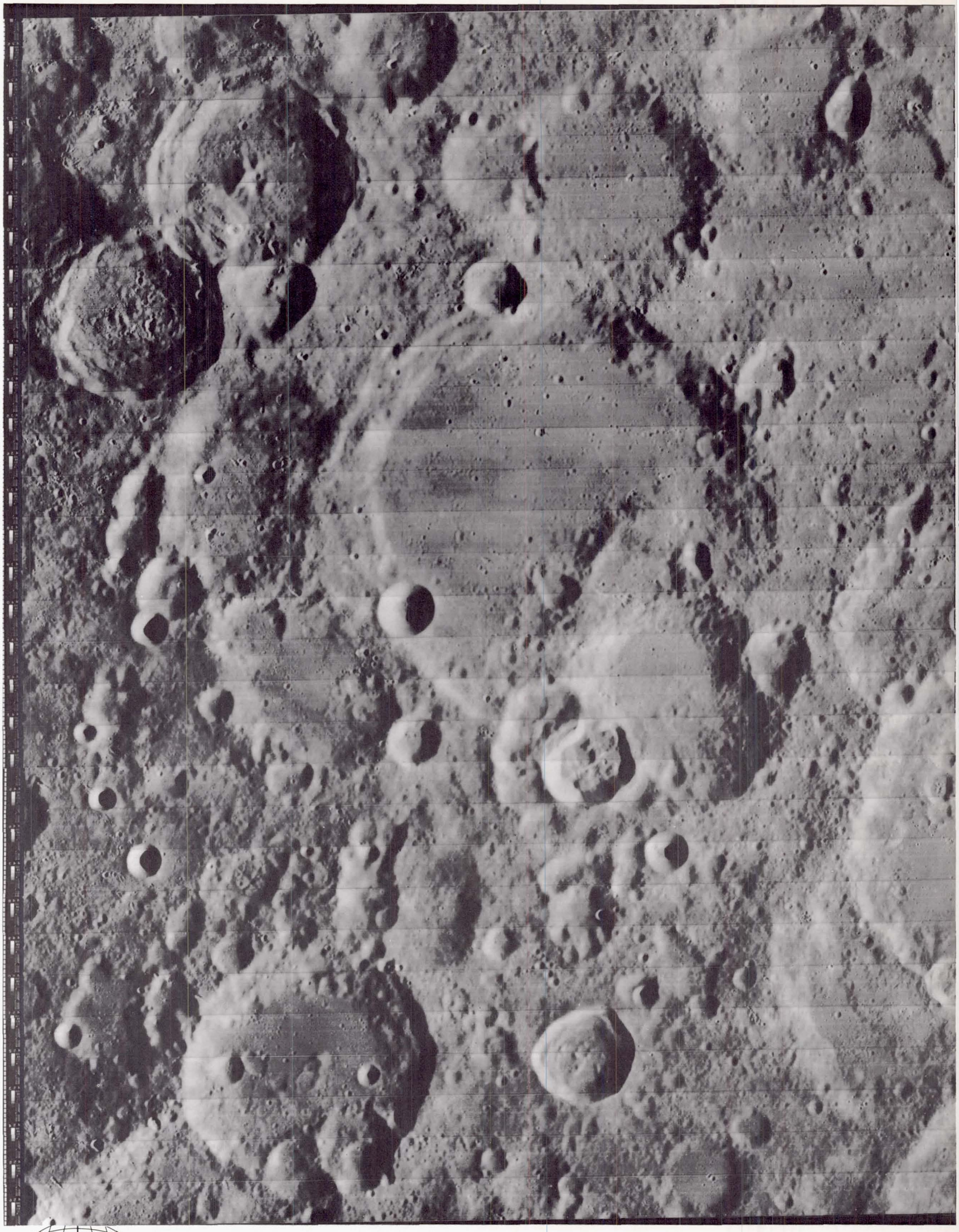
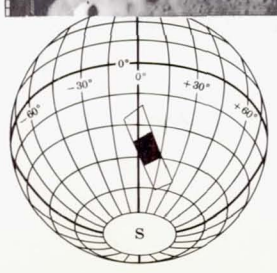



PLATE 408

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| FARADAY | J9 |
| FERNELIUS | H3 |
| HERACLITUS | B16 |
| KAISER | K2 |
| LICETUS | D14 |
| MAUROLYCUS | M11 |
| MILLER | D3 |
| NASIREDDIN | B5 |
| STÖFLER | G7 |

1 CENTIMETER ≈ 12 KILOMETERS

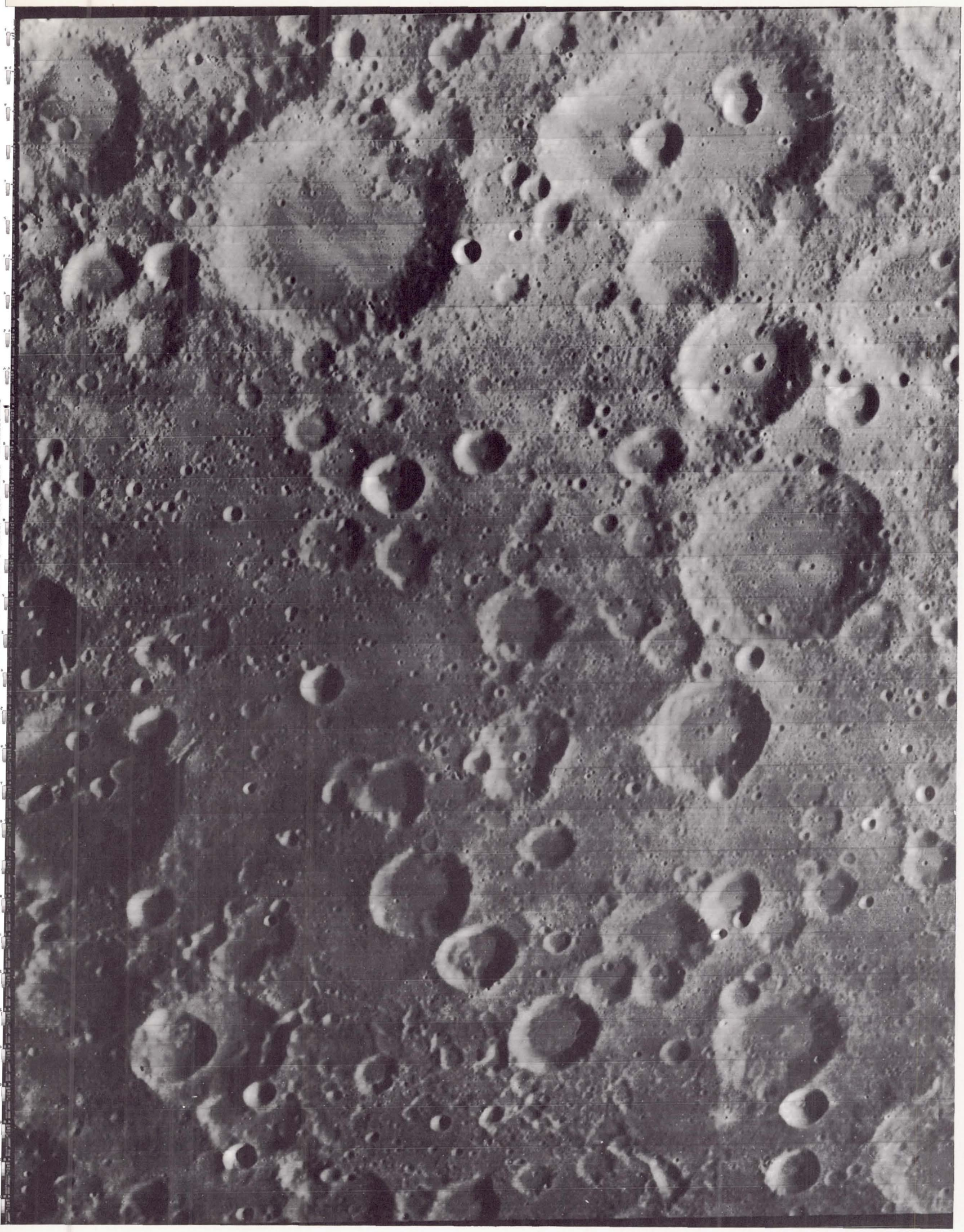
N

PHOTO NO. IV-107-H2

| | |
|---|---|
| CENTER COORDINATES | LONG. 6.45 |
| | LAT. −42.41 |
| NORTH DEVIATION (DEG.) | 25.87 |
| SUN ANGLE | 68.4 |
| SPACECRAFT ALTITUDE (KM) | 2981.85 |

PLATE 409

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-107-H1

ENTER COORDINATES ..... LONG. 6.45
LAT. —42.41
ORTH DEVIATION (DEG.) ..... 25.87
UN ANGLE ..... 68.4
PACECRAFT ALTITUDE (KM) ..... 2981.85

1 CENTIMETER ≈ 12 KILOMETERS

ASCLEPI ..... C13
BACO ..... C7
BREISLAK ..... A4
CLAIRAUT ..... D2
CUVIER ..... H3
HERACLITUS .... L2
JACOBI ..... L10
TANNERUS .... E13

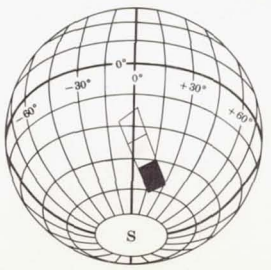
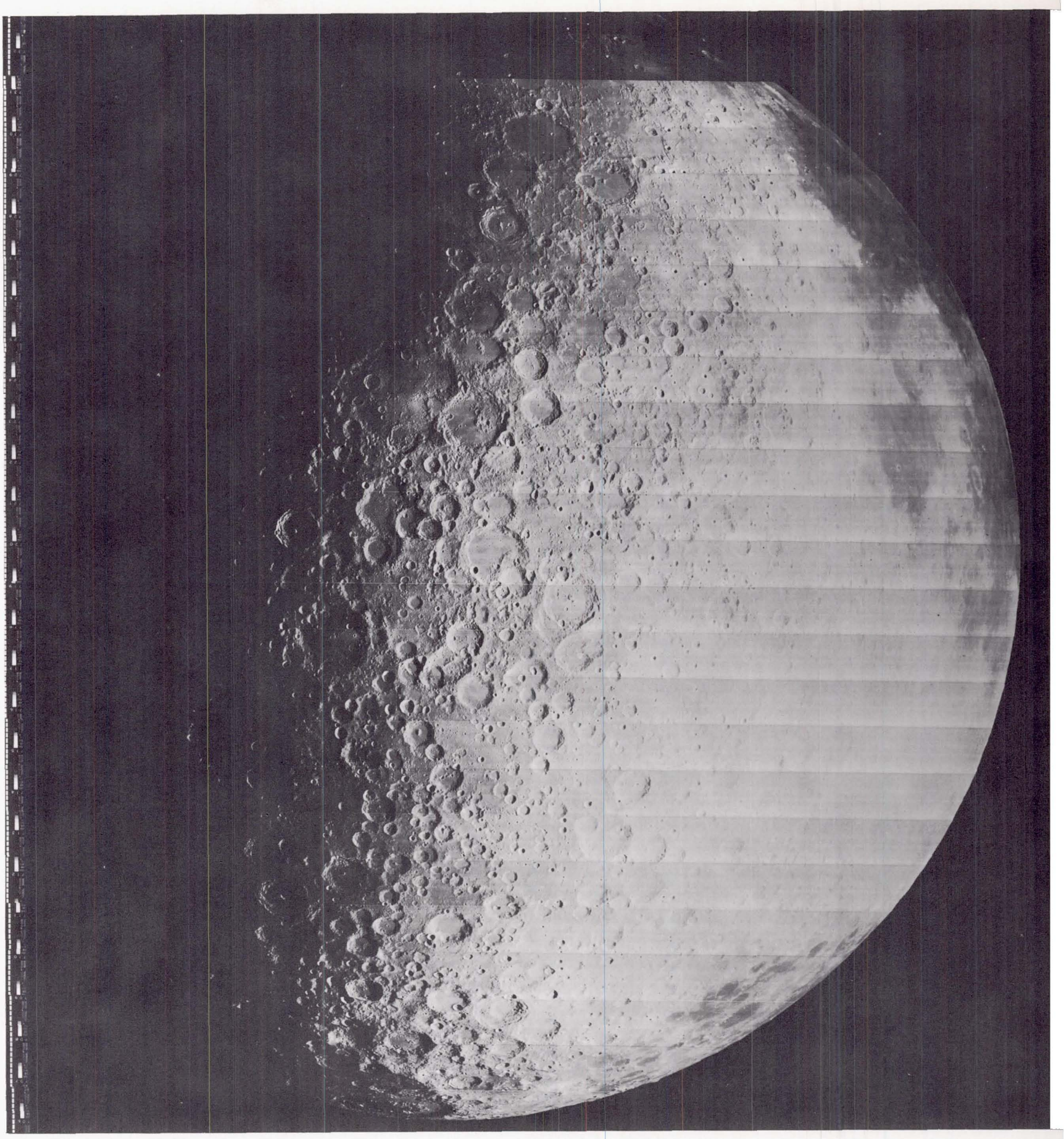
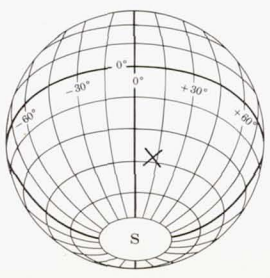



PLATE 410

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE NUBIUM ... E4

1 CENTIMETER ≈ 95 KILOMETERS




PHOTO NO. IV-100-M

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. 12.2 |
| | LAT. −42.7 |
| NORTH DEVIATION (DEG.) ..... | 25.5 |
| SUN ANGLE ..... | 68. |
| SPACECRAFT ALTITUDE (KM) ..... | 2978.1 |

PLATE 411

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

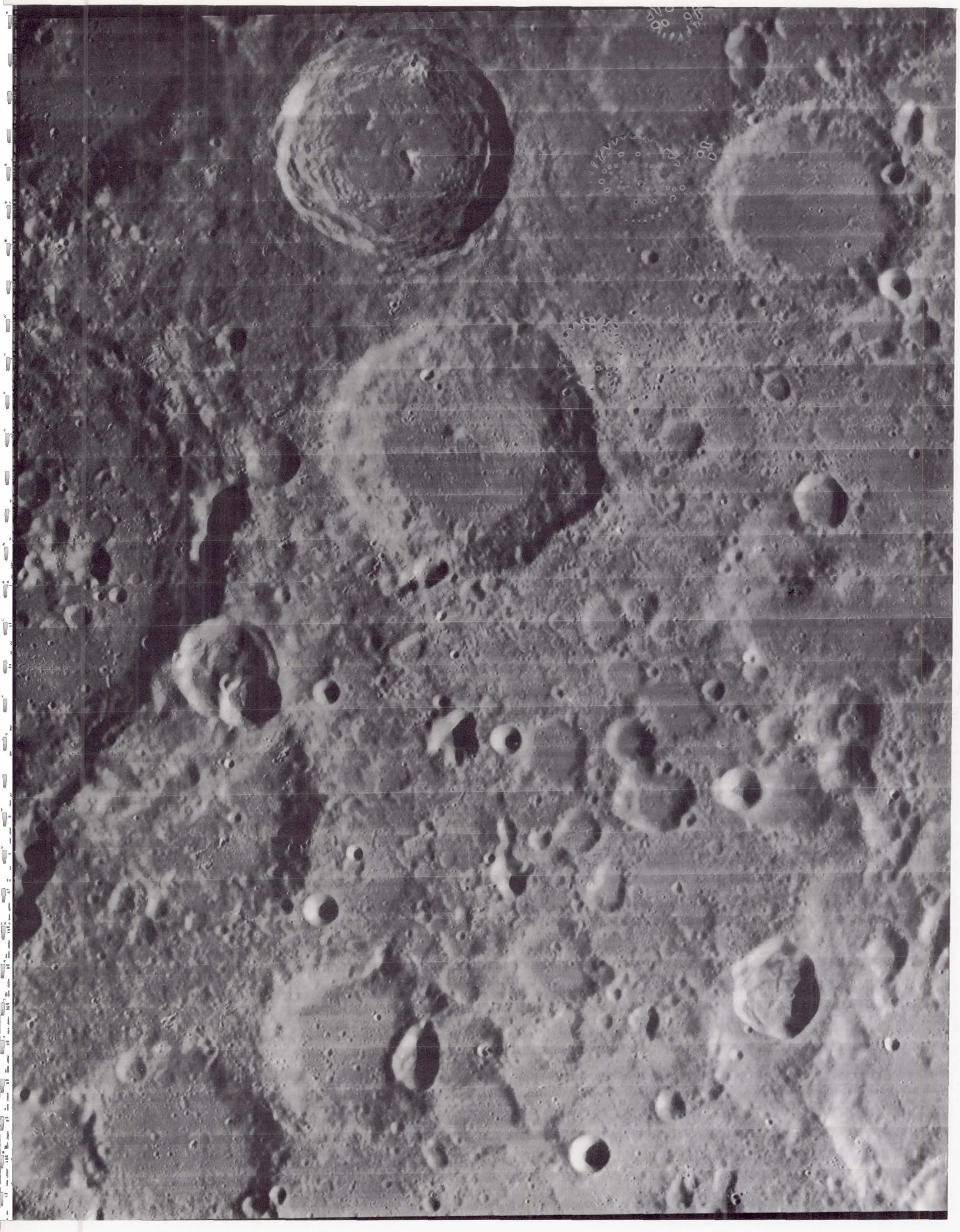


PHOTO NO. IV-100-H3

ENTER COORDINATES ..... LONG. 12.29
LAT. —42.72
ORTH DEVIATION (DEG.) ..... 25.98
JN ANGLE ..... 68.7
PACECRAFT ALTITUDE (KM) ..... 2978.20

N

1 CENTIMETER≈12 KILOMETERS

ALIACENSIS ..... G6
APIANUS ..... B3
FERNELIUS ..... K15
KAISER ..... H13
KRUSENSTERN .... D1
NONIUS ..... K11
WALTER ..... M7
WERNER ..... H2

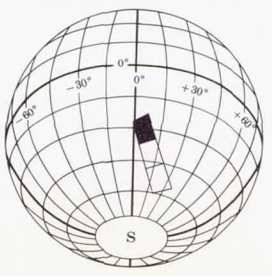
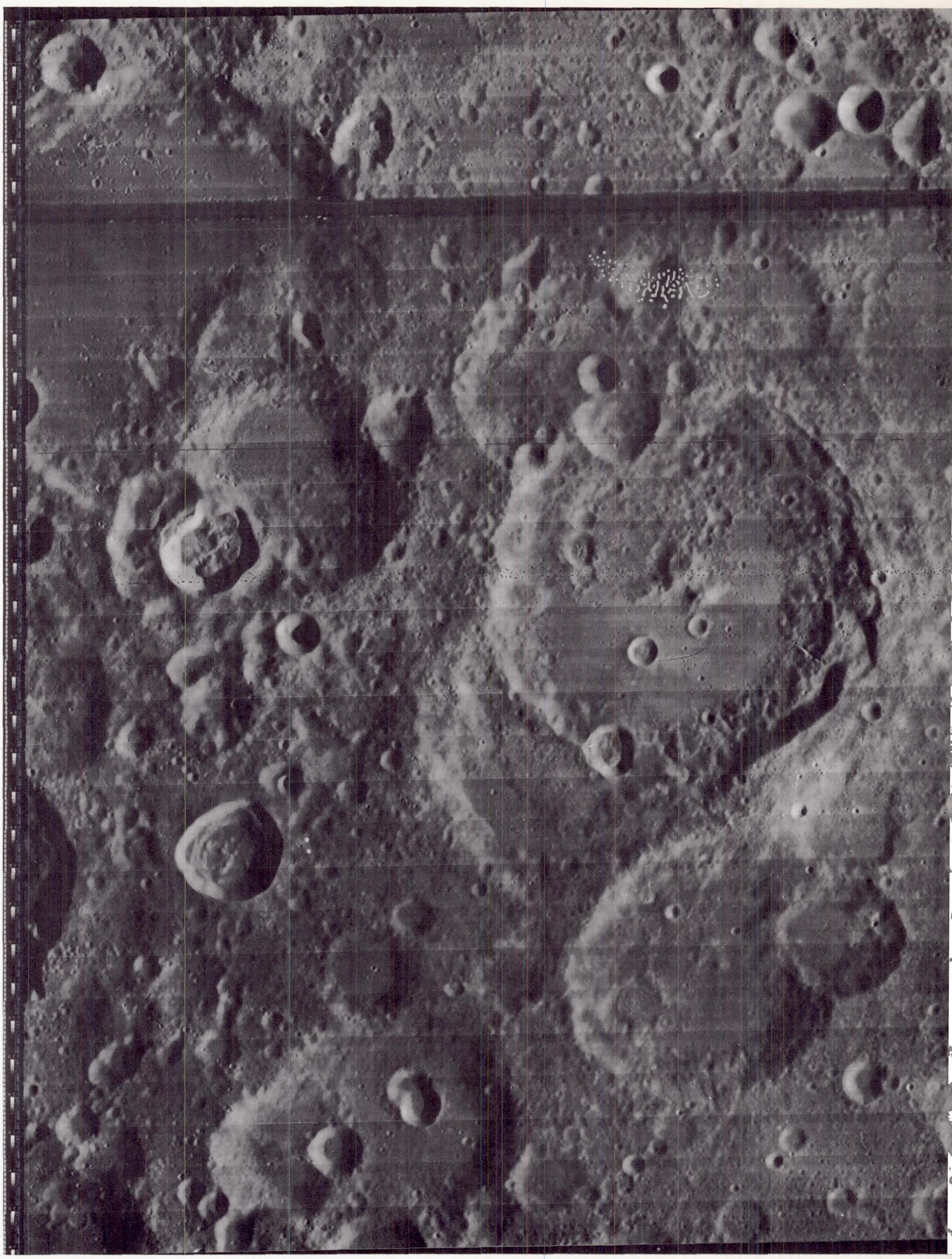
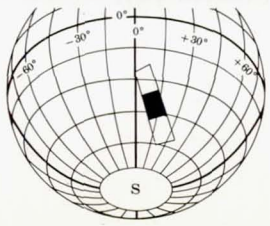



PLATE 412

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BAROCIUS ..... J12
CLAIRAUT ..... E15
FARADAY ..... D6
MAUROLYCUS .... H8
STÖFLER ..... B4

1 CENTIMETER≈12 KILOMETERS




PHOTO NO. IV-100- H2

CENTER COORDINATES ..... LONG. 12.2
LAT.—42.7
NORTH DEVIATION (DEG.) ..... 25.9
SUN ANGLE ..... 68.
SPACECRAFT ALTITUDE (KM) ... 2978.2

PLATE 413

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

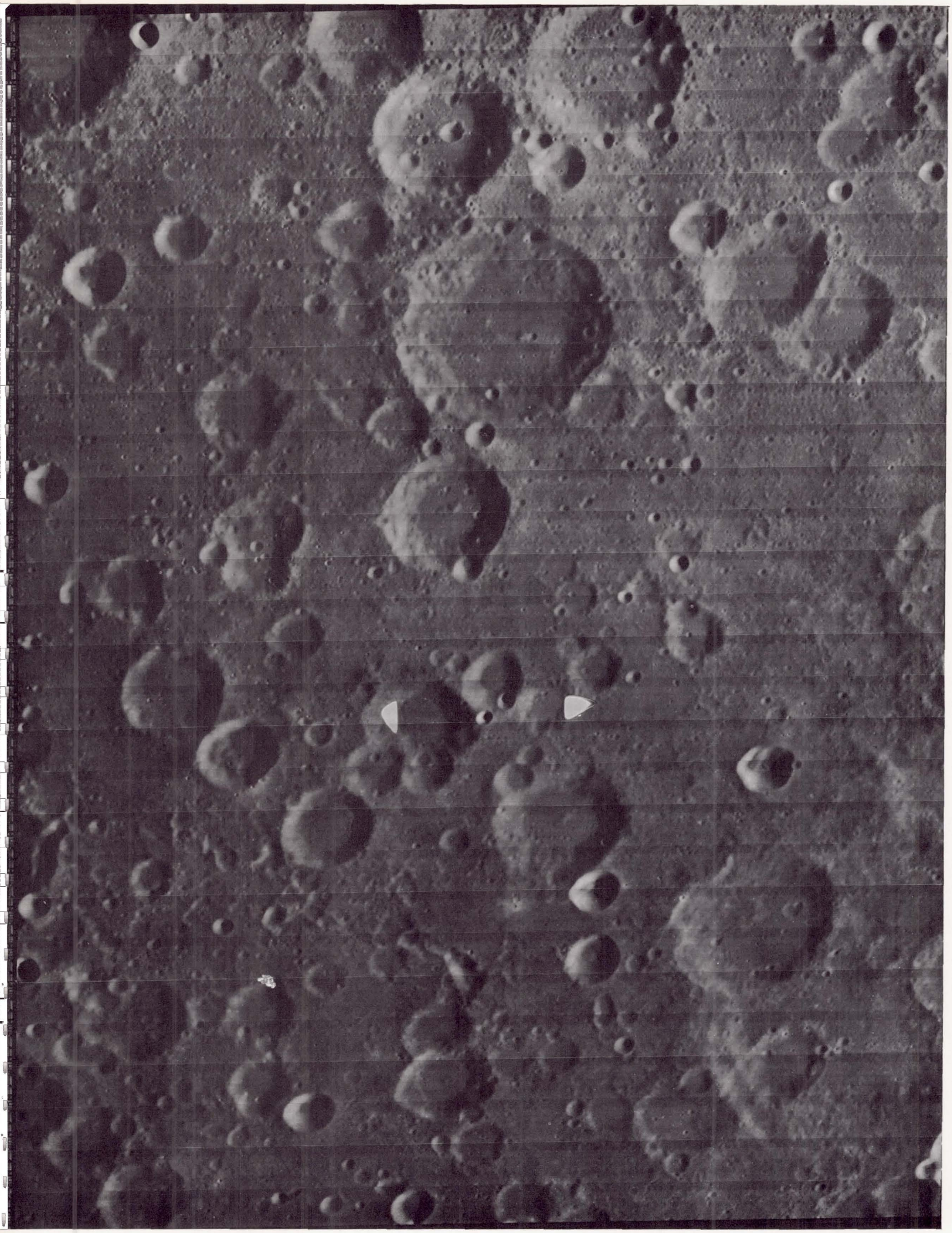


PHOTO NO. IV-100- H1

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | 12.29 |
| | LAT. | —42.72 |
| NORTH DEVIATION (DEG.) | | 25.98 |
| SUN ANGLE | | 68.7 |
| SPACECRAFT ALTITUDE (KM) | | 2978.20 |

N

1 CENTIMETER ≈ 12 KILOMETERS

| | |
|---|---|
| ASCLEPI | E11 |
| BACO | F4 |
| BREISLAK | E1 |
| HOMMEL | B13 |
| IDELER | C4 |
| TANNERUS | H11 |

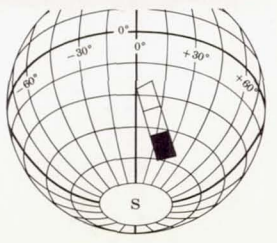
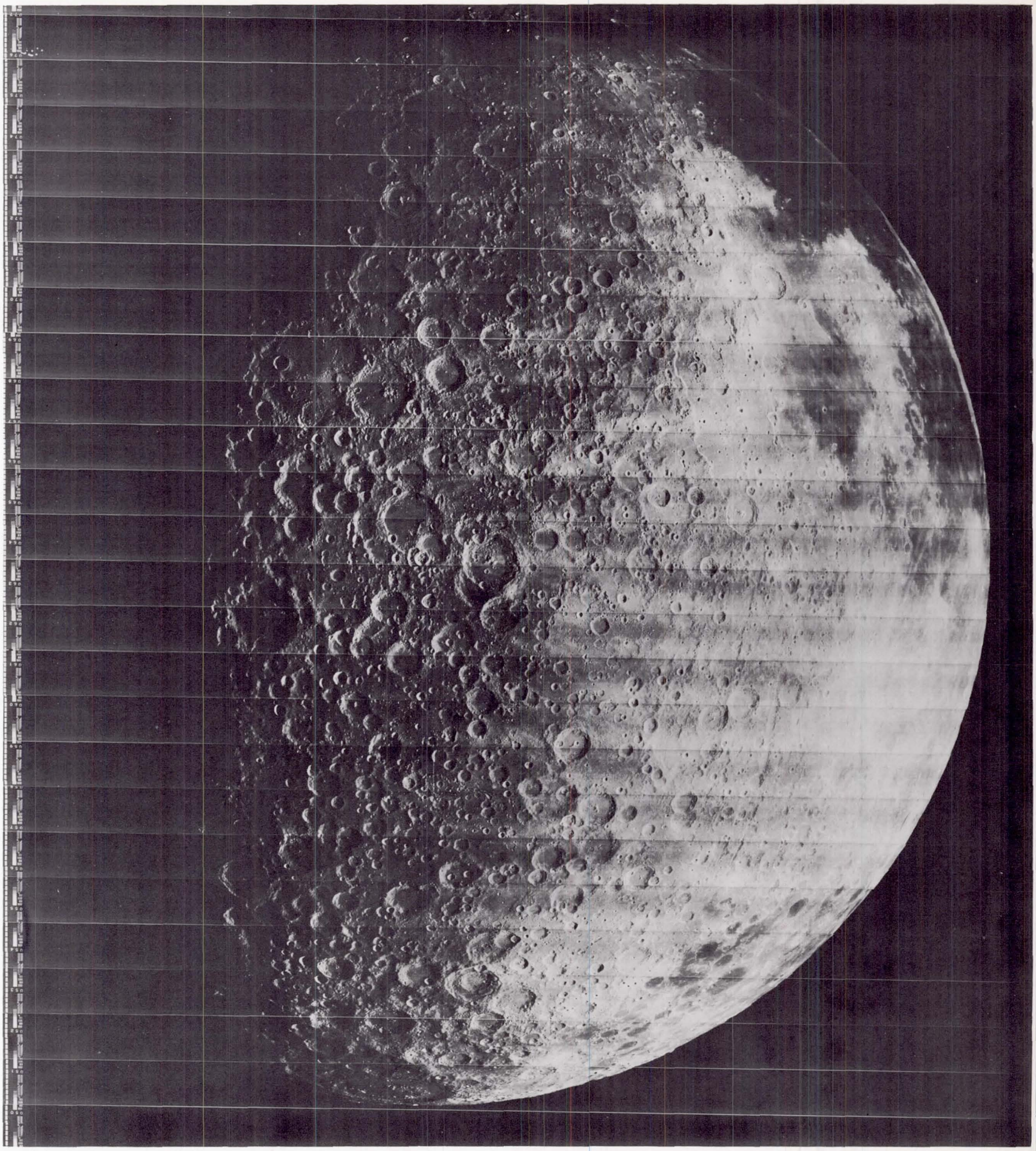
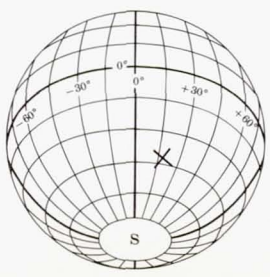



PLATE 414

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE NECTHRIS ... K5
MARE NUBIUM ..... D3

1 CENTIMETER ≈ 95 KILOMETERS




PHOTO NO. IV-95-M

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. 18.70 |
| | LAT. −42.53 |
| NORTH DEVIATION (DEG.) ..... | 25.69 |
| SUN ANGLE ..... | 68.4 |
| SPACECRAFT ALTITUDE (KM) ..... | 2975.49 |

PLATE 415

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-95-H3

CENTER COORDINATES ..... LONG. 18.70
LAT. —42.54
NORTH DEVIATION (DEG.) ..... 25.69
SUN ANGLE ..... 68.4
SPACECRAFT ALTITUDE (KM) ..... 2975.51

N

1 CENTIMETER ≈ 12 KILOMETERS

GEMMA FRISIUS ..... G11
GOODACRE ..... E10
POISSON ..... J6

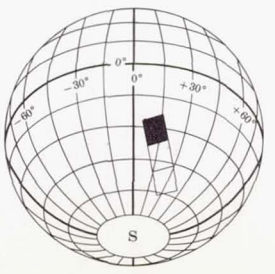
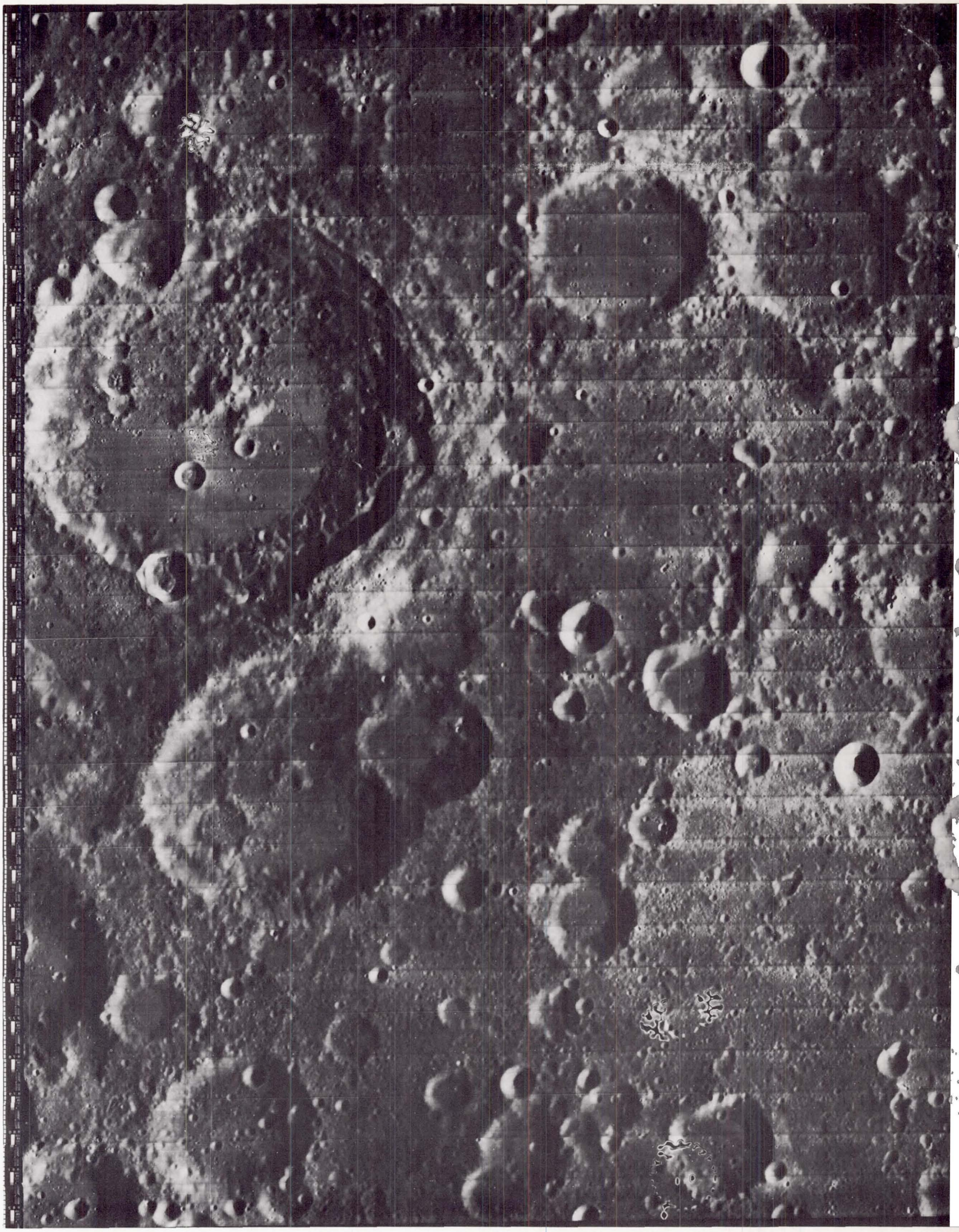
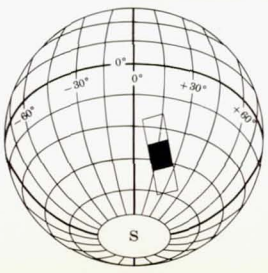



PLATE 416

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BAROCIUS ..... D10
BREISLAK ..... C15
BUCH ..... H4
BÜSCHING ..... L4
MAUROLYCUS ..... C6
NICOLAI ..... M11
SPALLANZANI ..... J15

1 CENTIMETER ≈ 12 KILOMETERS

N

PHOTO NO. IV-95- H2

CENTER COORDINATES ..... LONG. 18.7
LAT. —42.5
NORTH DEVIATION (DEG.) ..... 25.6
SUN ANGLE ..... 68.
SPACECRAFT ALTITUDE (KM) ..... 2975.5

PLATE 417

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

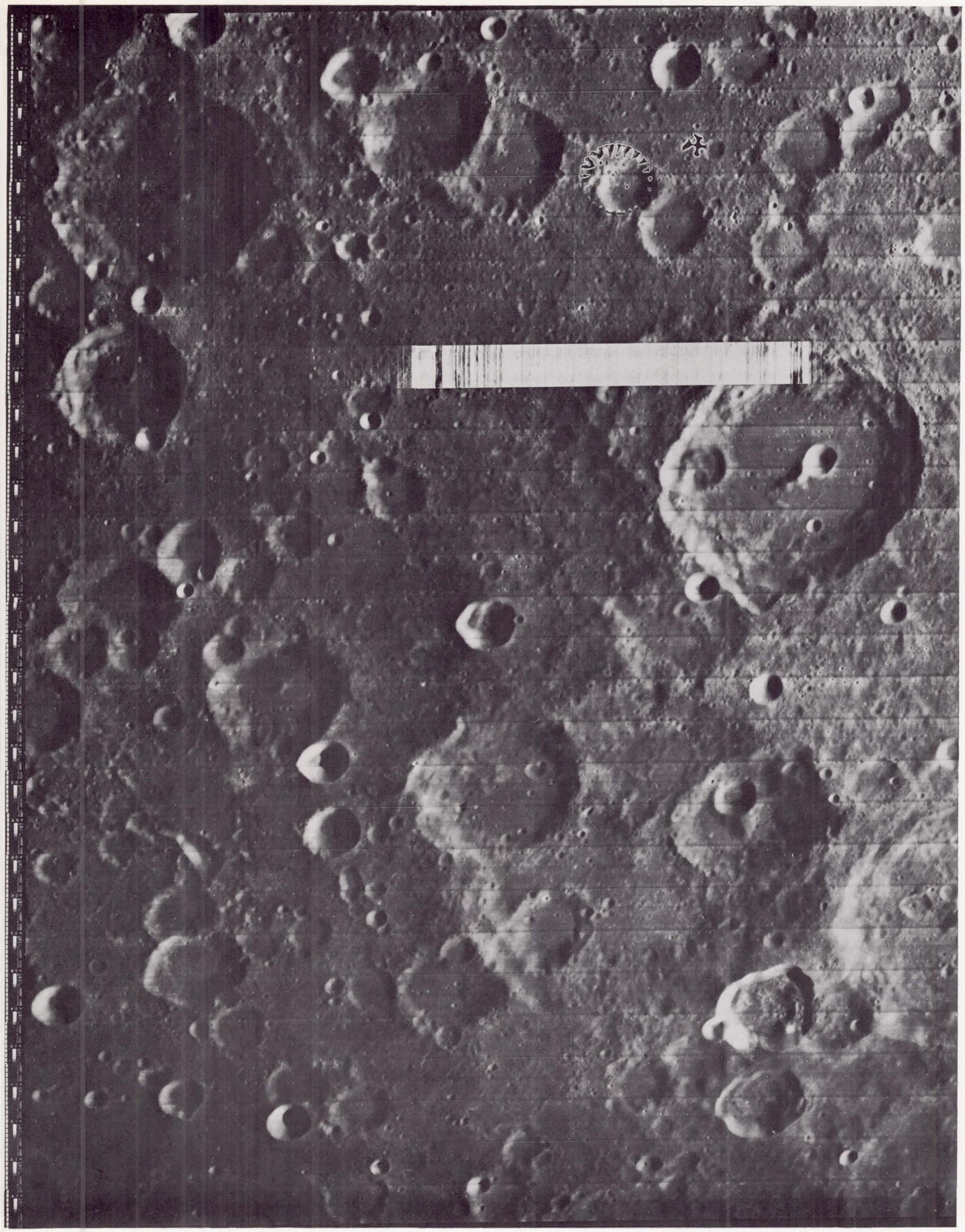


PHOTO NO. IV-95- H1

ENTER COORDINATES ..... LONG. 18.70
LAT. —42.54
ORTH DEVIATION (DEG.) ..... 25.69
UN ANGLE ..... 68.4
PACECRAFT ALTITUDE (KM) ..... 2975.51

N

1 CENTIMETER ≈ 12 KILOMETERS

ASCLEPI ..... J9
BACO ..... K3
HOMMEL .... A12
IDELER ..... G2
PITISCUS ..... C7

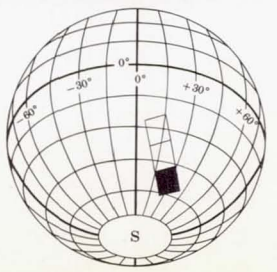
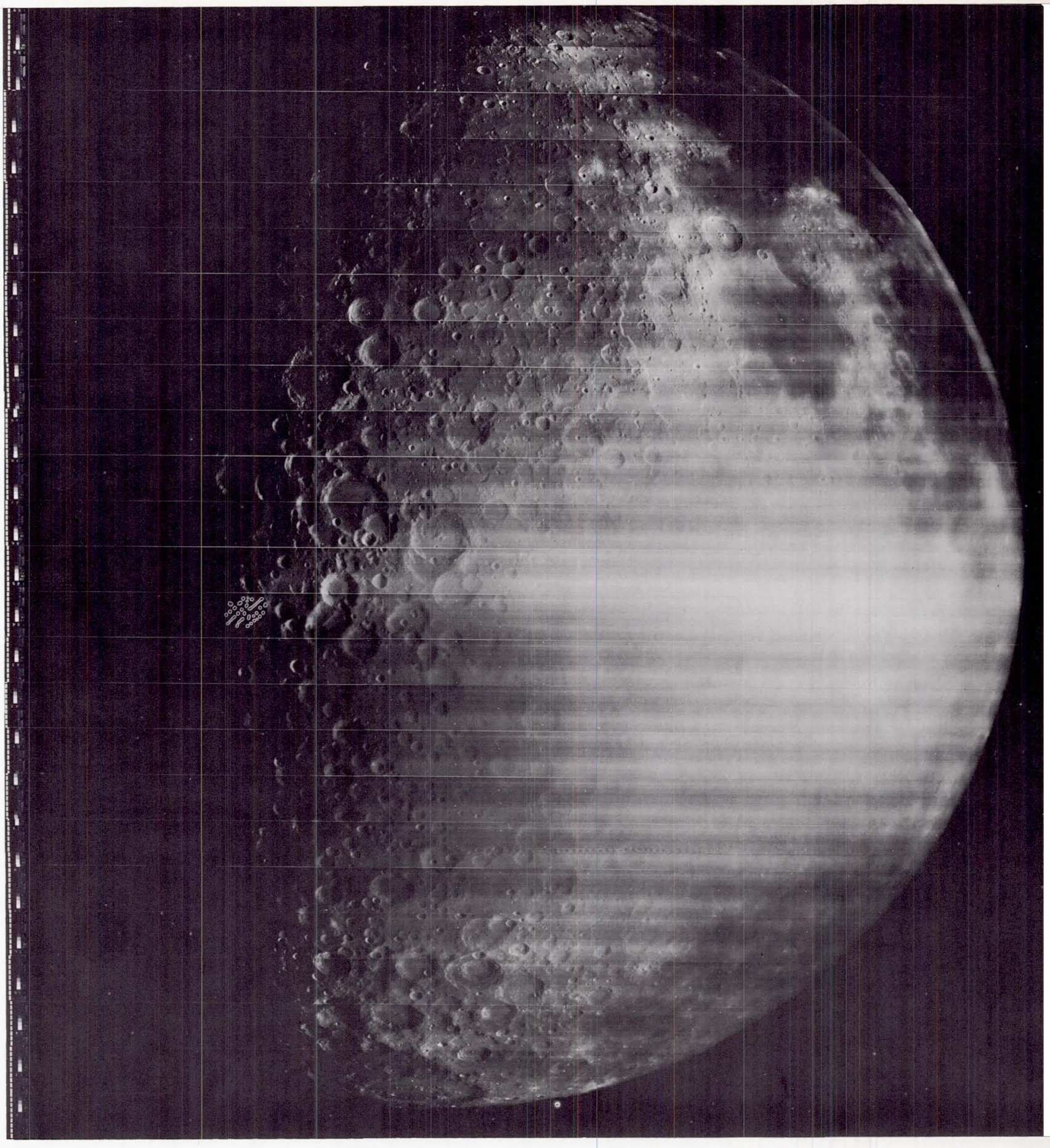
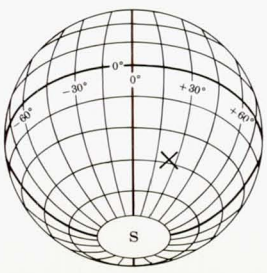



PLATE 418

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS ..... L4
MARE NECTARIS ..... J4
MARE TRANQUILLITATIS ..... J2

1 CENTIMETER ≈ 95 KILOMETERS

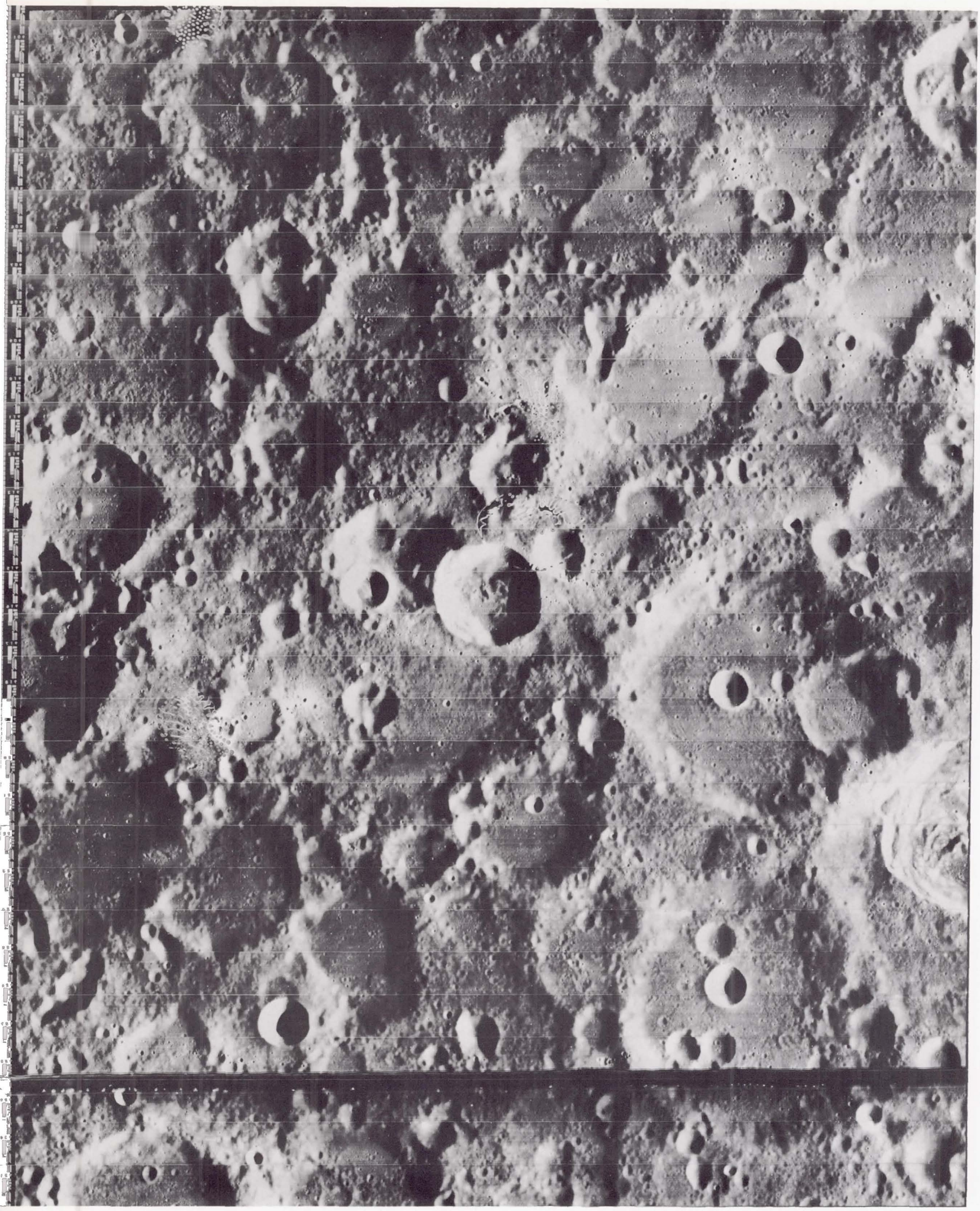



PHOTO NO. IV-88-M

CENTER COORDINATES ..... LONG. 24.9
LAT. —42.6
NORTH DEVIATION (DEG.) .....25.7
SUN ANGLE .....68.
SPACECRAFT ALTITUDE (KM) .... 2973.2

PLATE 419

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-88-H3

CENTER COORDINATES ..... LONG. 24.94
LAT. —42.70
NORTH DEVIATION (DEG.) ..... 25.77
SUN ANGLE ..... 68.3
SPACECRAFT ALTITUDE (KM) ..... 2973.34

N

1 CENTIMETER ≈ 12 KILOMETERS

BUCH ..... L15
BÜSCHING ..... H15
CELSIUS ..... F11
GOODACRE ..... L7
LINDENAU ..... A11
RABBI LEVI .... C13
ZAGUT ..... C9

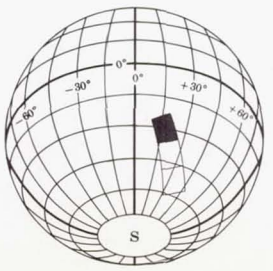
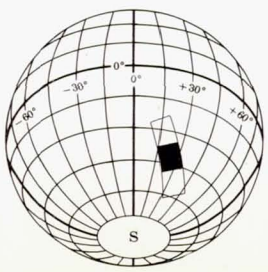



PLATE 420




BUCH ..... B1
BÜSCHING ..... E1
IDELER ..... A15
NICOLAI ..... H8
RICCIUS ..... M2
SPALLANZANI .... E12

1 CENTIMETER ≈ 12 KILOMETERS




PHOTO NO. IV-88-H2

CENTER COORDINATES ..... LONG. 24.94
LAT. −42.70
NORTH DEVIATION (DEG.) ..... 25.77
SUN ANGLE ..... 68.2
SPACECRAFT ALTITUDE (KM) ..... 2973.34

PLATE 421

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-88-H1

CENTER COORDINATES ..... LONG. 24.94
LAT.—42.70
NORTH DEVIATION (DEG.) ..... 25.77
SUN ANGLE ..... 68.3
SPACECRAFT ALTITUDE (KM) ..... 2973.34

N

1 CENTIMETER ≈ 12 KILOMETERS

ASCLEPI ..... M4
HAGECIUS ..... A16
HOMMEL ..... H8
NEARCH ..... G14
PITISCUS ..... G4
ROSENBERGER .... C13
VLACQ ..... C9

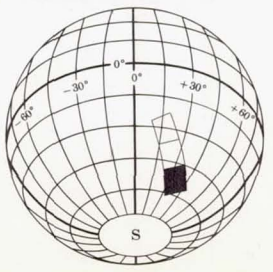
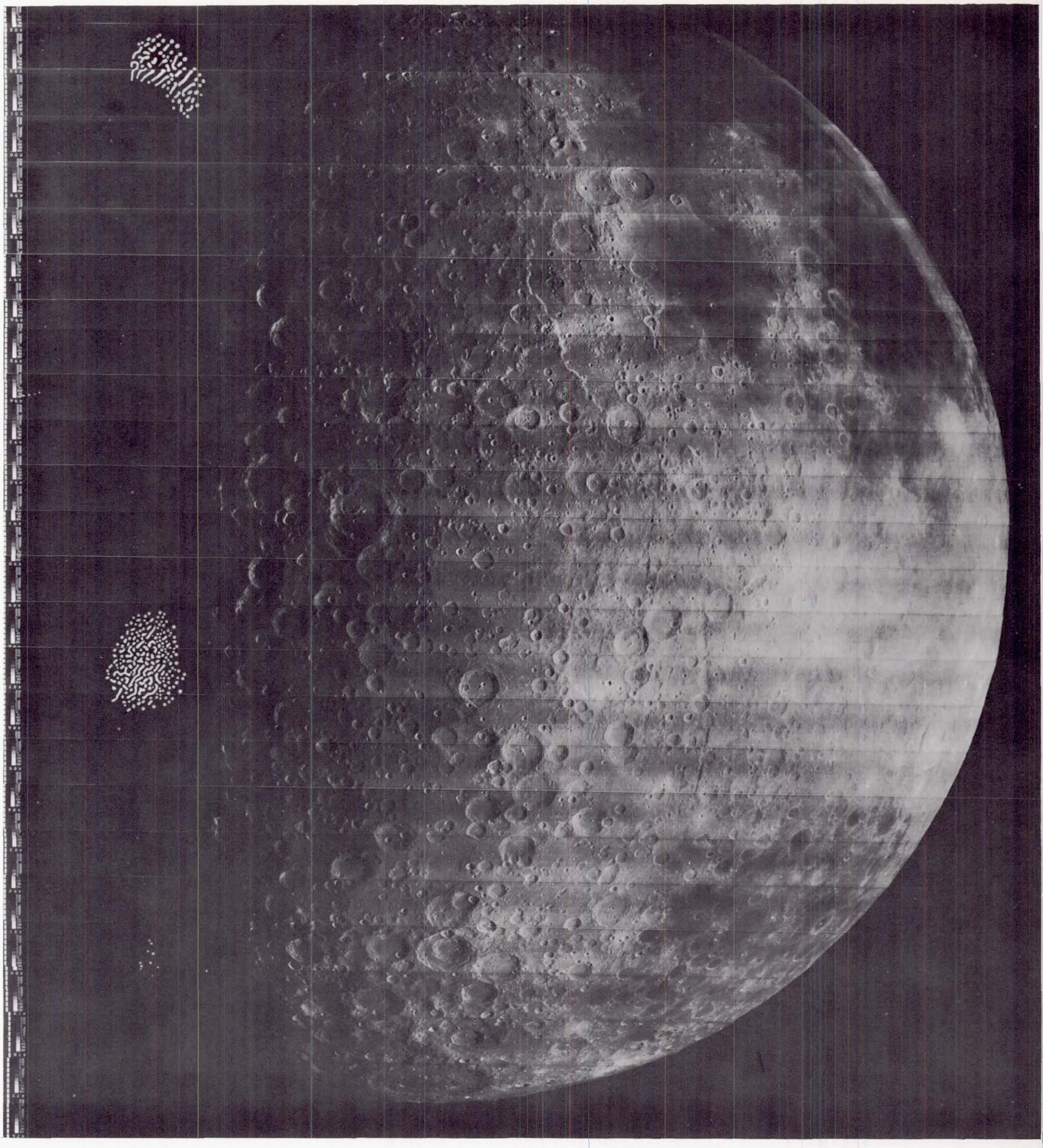
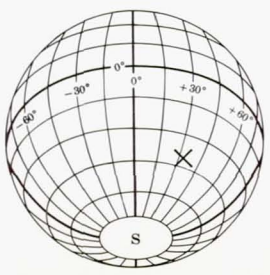



PLATE 422

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS ..... K3
MARE NECTARIS ..... J4
MARE TRANQUILLITATIS ..... H1

1 CENTIMETER ≈ 95 KILOMETERS




PHOTO NO. IV-83-M

CENTER COORDINATES ..... LONG. 32.8
LAT. —42.9
NORTH DEVIATION (DEG.) ..... 26.5
SUN ANGLE ..... 67.
SPACECRAFT ALTITUDE (KM) ..... 2971.8

PLATE 423

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

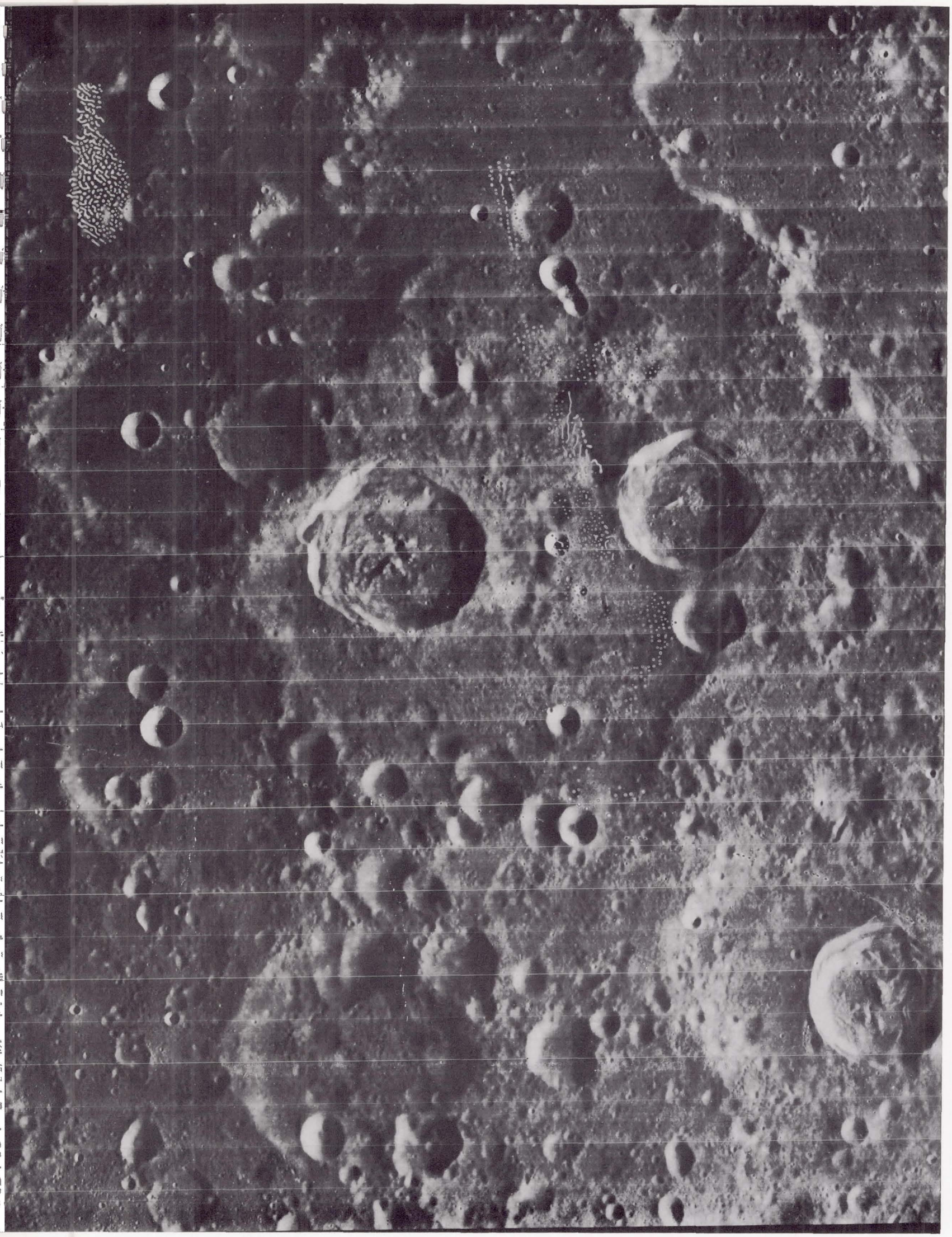


PHOTO NO. IV-83-H3

ENTER COORDINATES ..... LONG. 32.82
LAT. —42.95
ORTH DEVIATION (DEG.) ..... 26.58
N ANGLE ..... 67.2
ACECRAFT ALTITUDE (KM) ..... 2971.86

N

1 CENTIMETER ≈12 KILOMETERS

LINDENAU ..... G7
RABBI LEVI ... K10
RICCIUS ..... H13
ROTHMANN .... D7
STIBORIUS .... A13
ZAGUT ..... K5

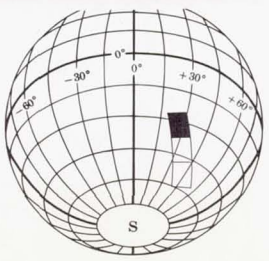
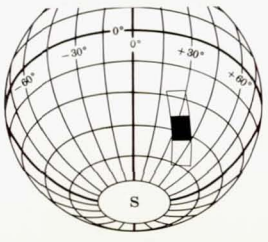



PLATE 424

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






NICOLAI .... B5
WOHLER .... J2

1 CENTIMETER ≈ 12 KILOMETERS




PHOTO NO. IV-83-H2

CENTER COORDINATES ..... LONG. 32.8
LAT.—42.9
NORTH DEVIATION (DEG.) ..... 26.5
SUN ANGLE ..... 67.2
SPACECRAFT ALTITUDE (KM) .. .. 2971.8

PLATE 425

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

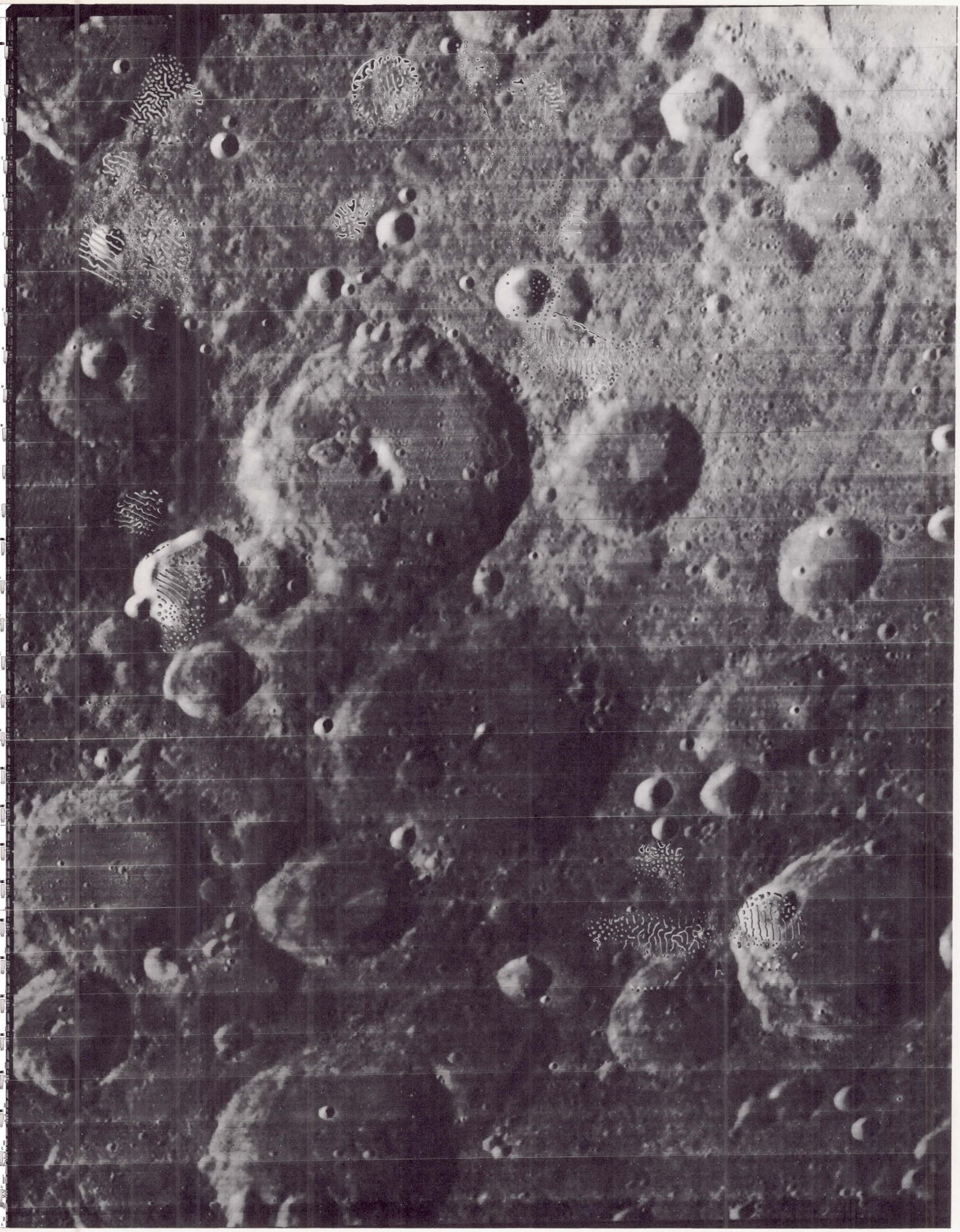


PHOTO NO. IV-83-H1

ENTER COORDINATES ..... LONG. 32.82
LAT. —42.95
ORTH DEVIATION (DEG.) ..... 26.58
UN ANGLE ..... 67.2
PACECRAFT ALTITUDE (KM) ..... 2971.86

N

1 CENTIMETER ≈ 12 KILOMETERS

BIELA ..... A12
HAGECIUS .... H15
VLACQ ..... G6

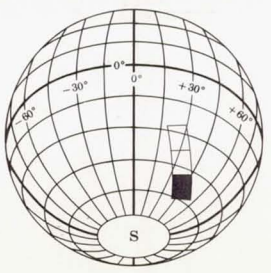
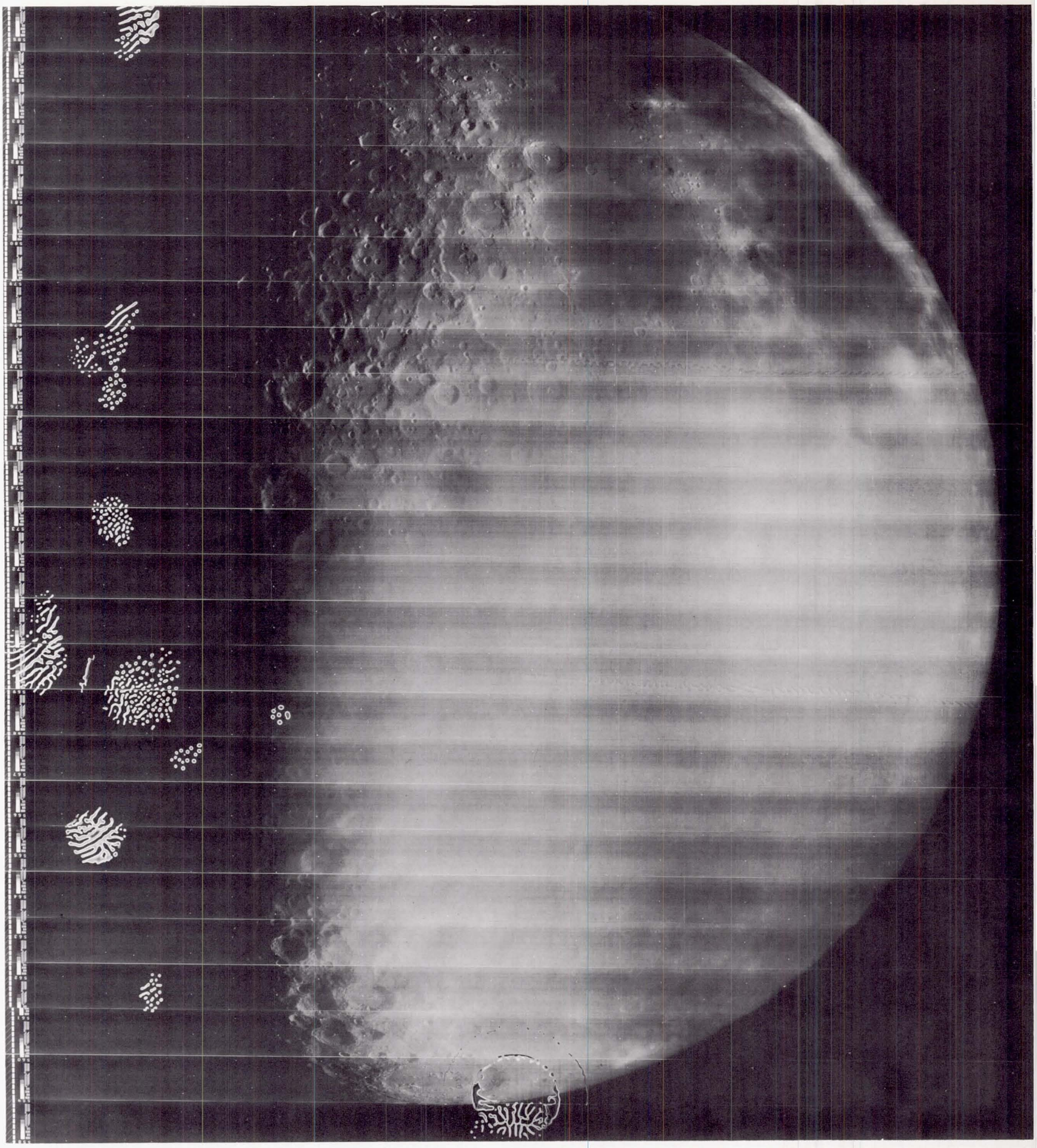
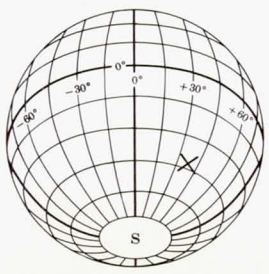



PLATE 426

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS ..... K3
MARE NECTARIS ..... H3
MARE TRANQUILLITATIS ..... G1

1 CENTIMETER ≈ 95 KILOMETERS




PHOTO NO. IV-76-M

CENTER COORDINATES ..... LONG. 37.8°
LAT. −42.7°
NORTH DEVIATION (DEG.) ..... 25.2°
SUN ANGLE ..... 67.9°
SPACECRAFT ALTITUDE (KM) ..... 2971.5

PLATE 427

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

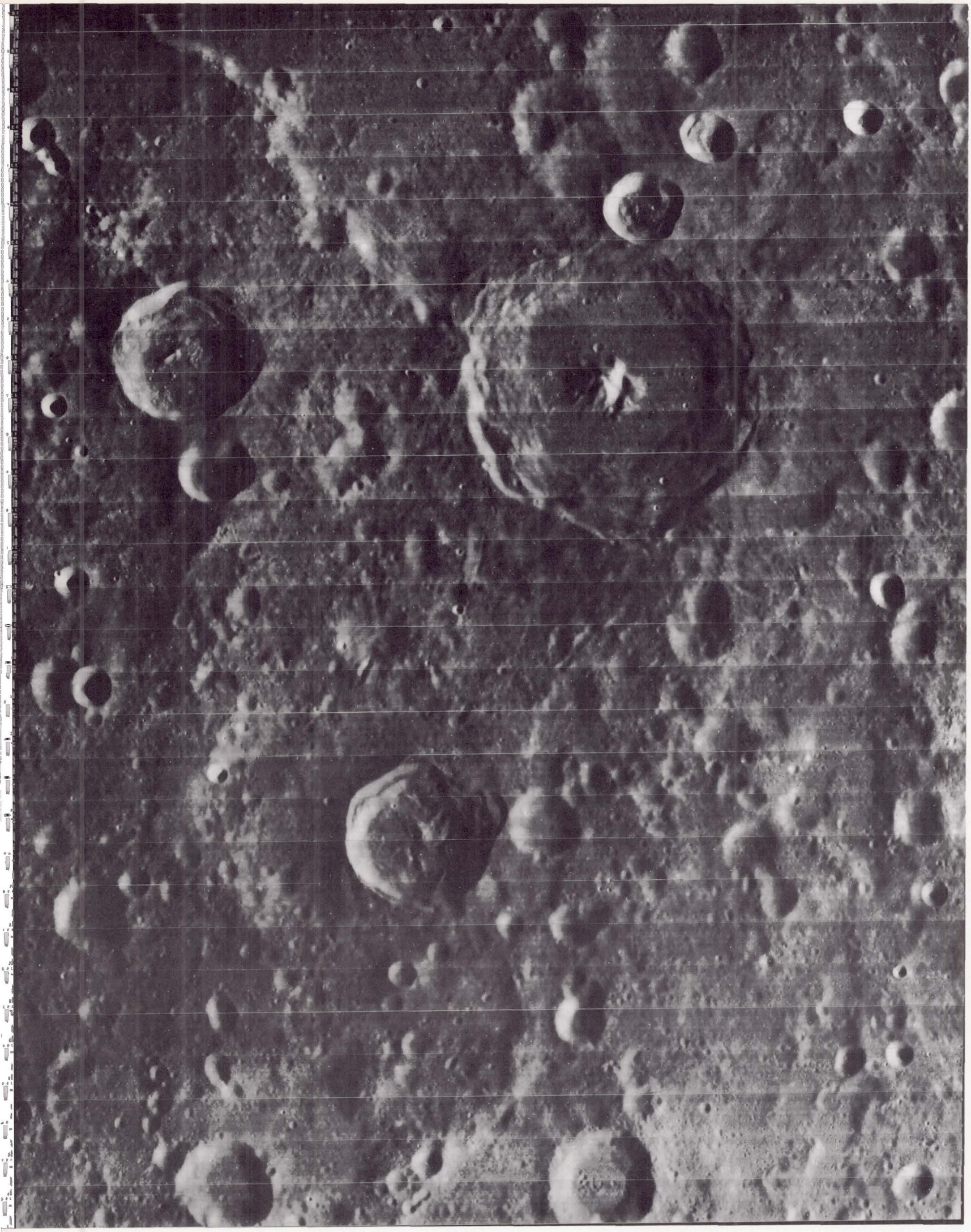


PHOTO NO. IV-76-H3

ENTER COORDINATES ..... LONG. 37.87
LAT.—42.77
ORTH DEVIATION (DEG.) ..... 25.25
N ANGLE ..... 67.9
ACECRAFT ALTITUDE (KM) ..... 2971.56

N

1 CENTIMETER ≈ 12 KILOMETERS

PICCOLOMINI .... E5
ROTHMANN ..... K5

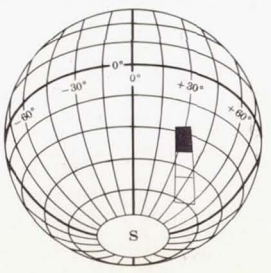
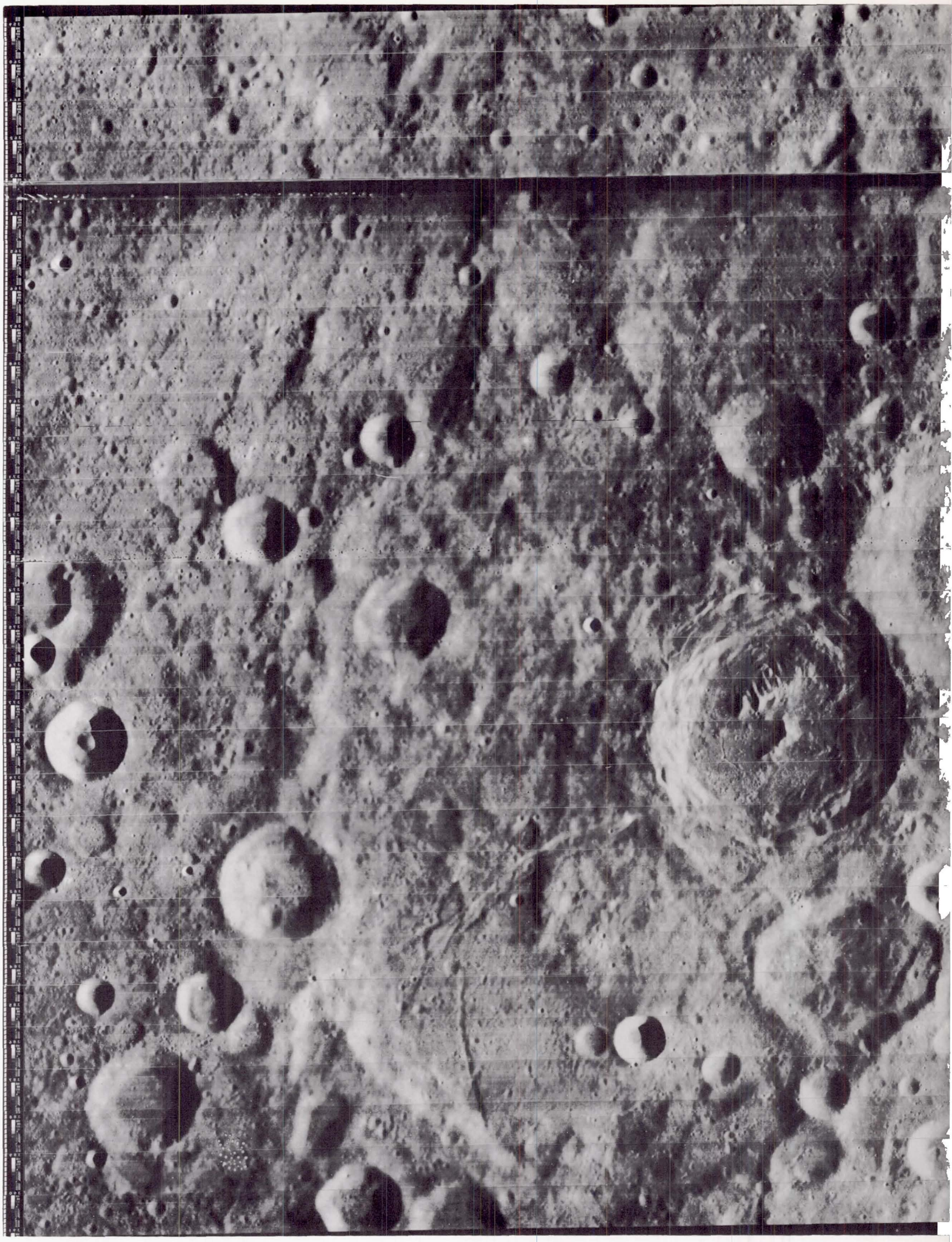
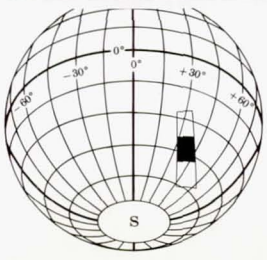



PLATE 428

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15






BRENNER .... K4
FABRICIUS .... K9
LOCKYER..... D11

1 CENTIMETER≈ 12 KILOMETERS

N

PHOTO NO. IV-76-H2

CENTER COORDINATES ..... LONG. 37.
LAT. —42.
NORTH DEVIATION (DEG.) ..... 25.
SUN ANGLE ..... 6°
SPACECRAFT ALTITUDE (KM) ..... 2971.

PLATE 429

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

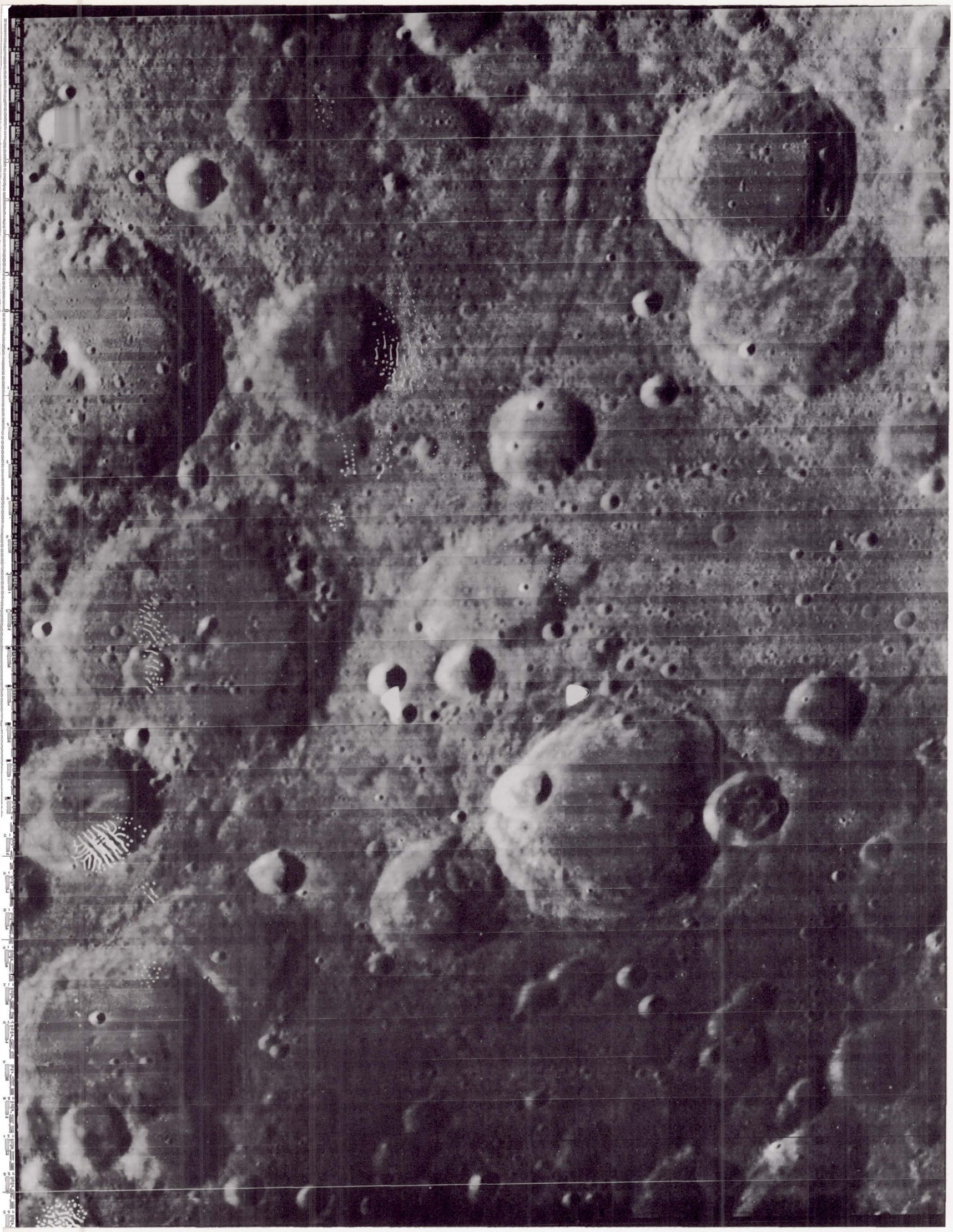


PHOTO NO. IV-76-H1

ENTER COORDINATES ..... LONG. 37.87
LAT. —42.77
ORTH DEVIATION (DEG.) ..... 25.25
N ANGLE ..... 67.9
ACECRAFT ALTITUDE (KM) ..... 2971.56

N

*1 CENTIMETER ≈ 12 KILOMETERS*

BIELA ..... E11
HAGECIUS ..... L13
ROSENBERGER ... K8
STEINHEIL ..... C3
VLACQ ..... L5
WATT ..... B4

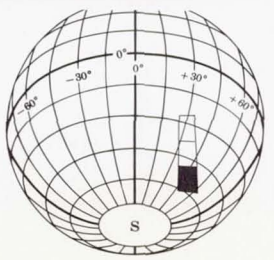
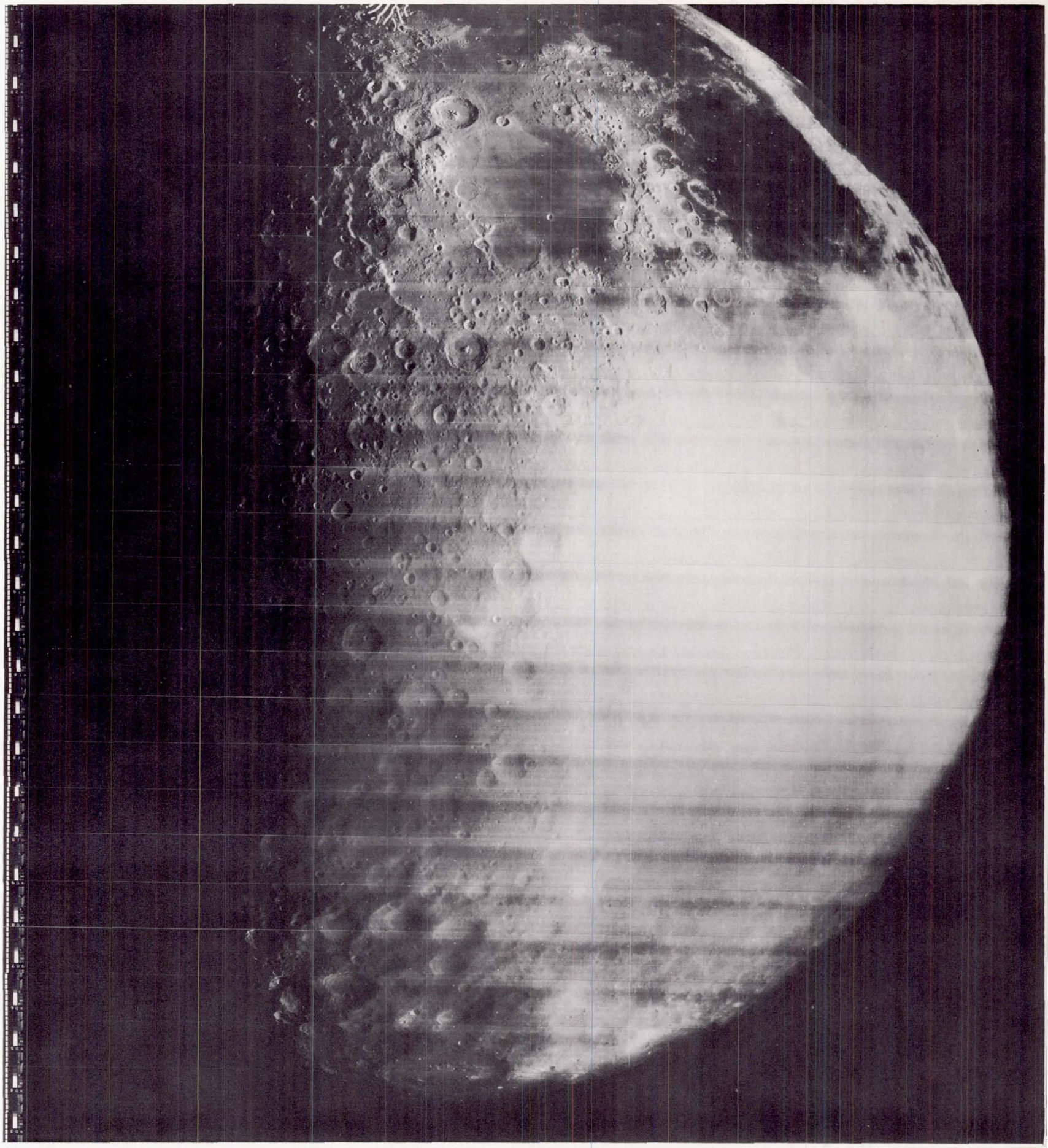
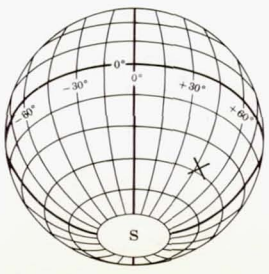



PLATE 430

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS .... J2
MARE NECTARIS ..... G3

1 CENTIMETER ≈ 95 KILOMETERS




PHOTO NO. IV-71-M

CENTER COORDINATES ..... LONG. 46.
LAT. —43.
NORTH DEVIATION (DEG.) ..... 26.
SUN ANGLE ..... 6
SPACECRAFT ALTITUDE (KM) ..... 2972.

PLATE 431

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-71-H3

ENTER COORDINATES ..... LONG. 46.67
LAT. —43.69
ORTH DEVIATION (DEG.) ..... 26.92
UN ANGLE ..... 66.5
PACECRAFT ALTITUDE (KM) ..... 2972.29

N

1 CENTIMETER ≈ 12 KILOMETERS

BRENNER ..... K14
NEANDER ..... F6

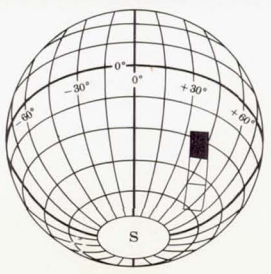
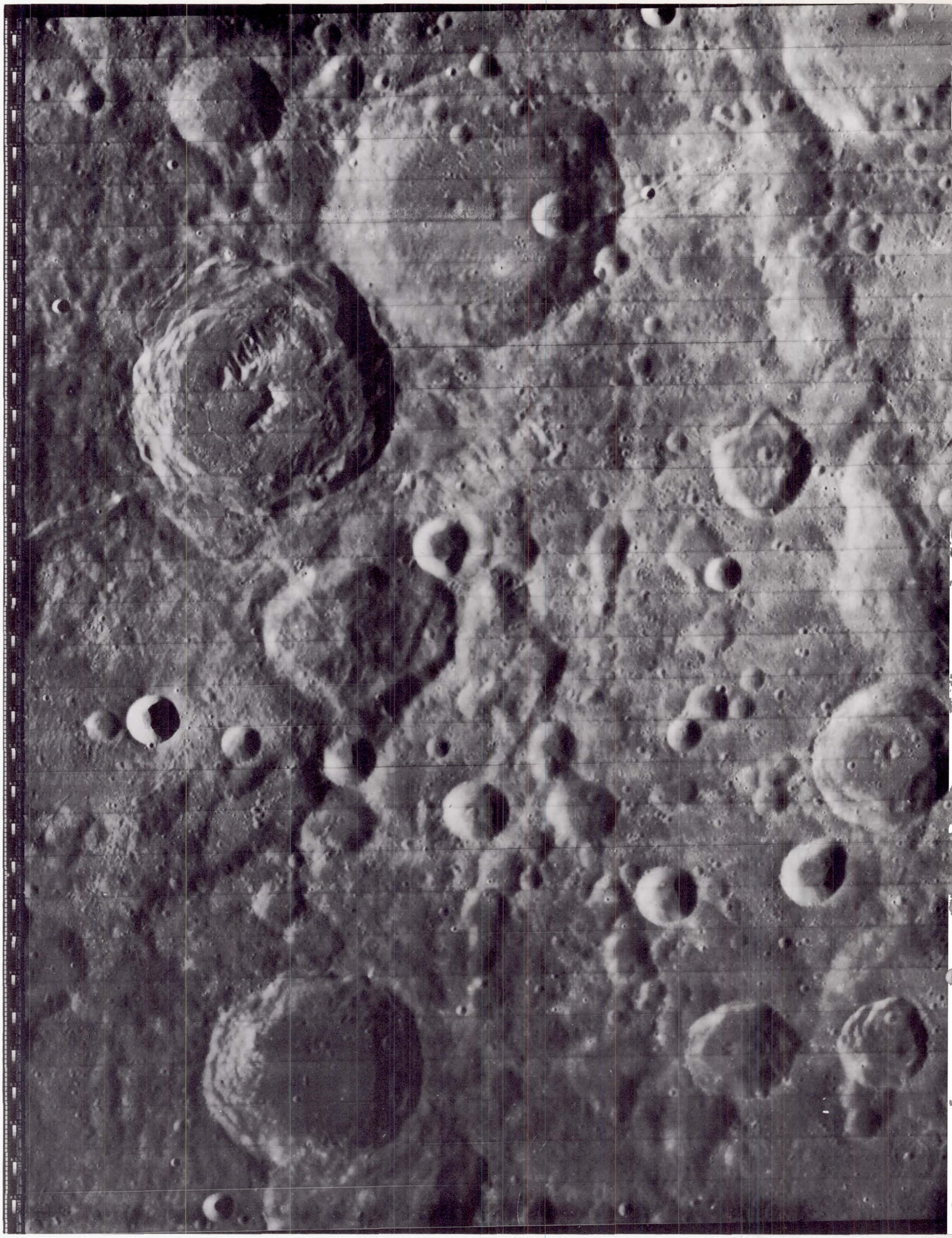
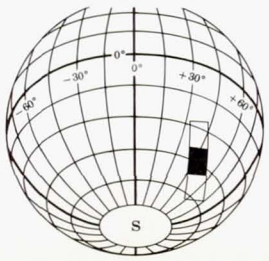



PLATE 432

A • B • C • D • E • F • G • H • J • K • L M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BRENNER ..... B2
FABRICIUS ..... D5
JANSSEN ..... B9
METIUS ..... G3
RHEITA ..... M1
STEINHEIL ..... D14
WATT ..... E15

1 CENTIMETER ≈ 12 KILOMETERS




PHOTO NO. IV-71-H2

CENTER COORDINATES ..... LONG. 46.6
LAT. −43.6
NORTH DEVIATION (DEG.) ..... 26.9
SUN ANGLE ..... 66.
SPACECRAFT ALTITUDE (KM) ..... 2972.2

PLATE 433

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-71-H1

ENTER COORDINATES ..... LONG. 46.67
LAT. —43.69
ORTH DEVIATION (DEG.) ..... 26.92
UN ANGLE ..... 66.5
PACECRAFT ALTITUDE (KM) ..... 2972.29

N

1 CENTIMETER ≈ 12 KILOMETERS

BIELA .... J7
WATT .... H1

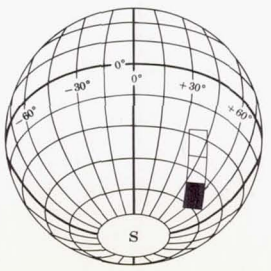
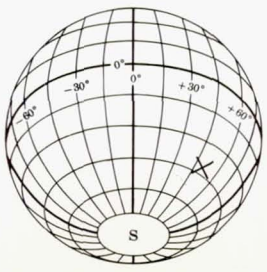



PLATE 434

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 95 KILOMETERS




PHOTO NO. IV-64-M

CENTER COORDINATES ..... LONG. 50.5
LAT. —42.5
NORTH DEVIATION (DEG.) ..... 24.6
SUN ANGLE ..... 67.
SPACECRAFT ALTITUDE (KM) .... 2972.8

PLATE 435

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

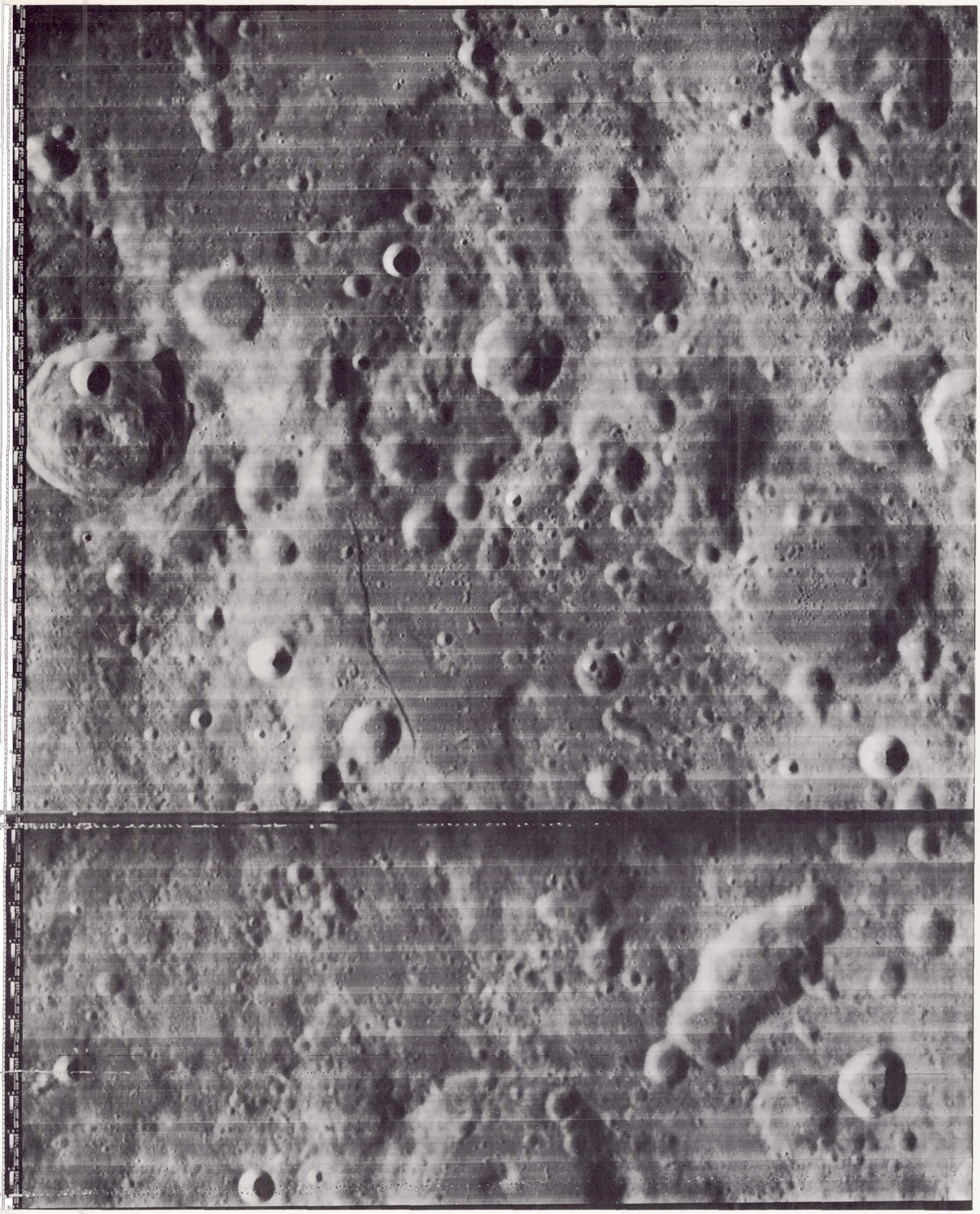


PHOTO NO. IV-64-H3

CENTER COORDINATES ..... LONG. 50.55
LAT. —42.56
NORTH DEVIATION (DEG.) ..... 24.65
SUN ANGLE ..... 67.5
SPACECRAFT ALTITUDE (KM) ..... 2972.87

N

1 CENTIMETER ≈ 12 KILOMETERS

RHEITA ..... F15

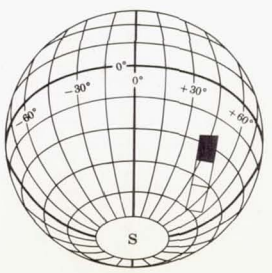
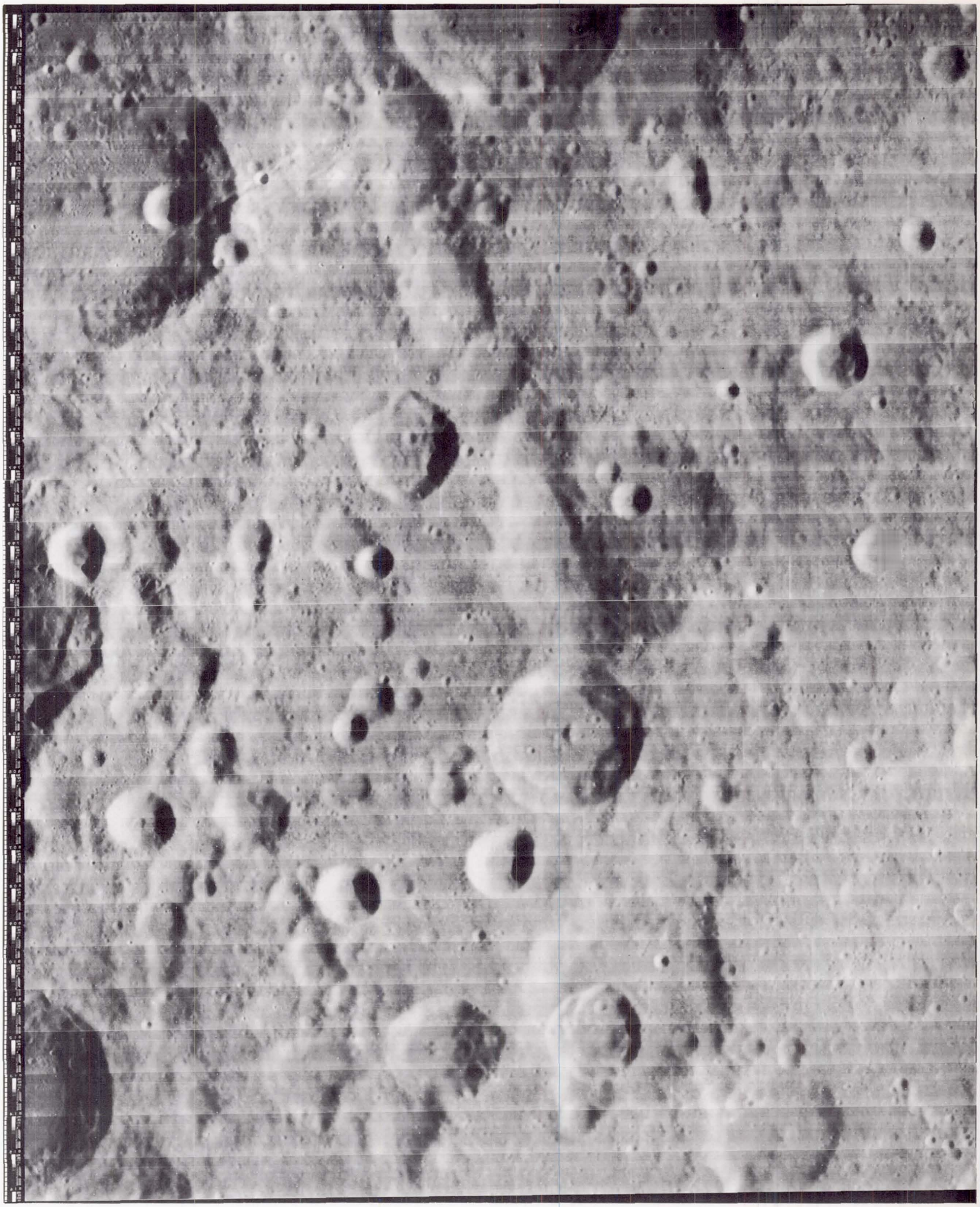
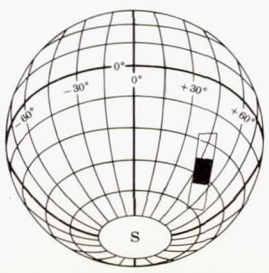



PLATE 436

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MALLET .... H12
METIUS ..... B3

1 CENTIMETER ≈ 12 KILOMETERS

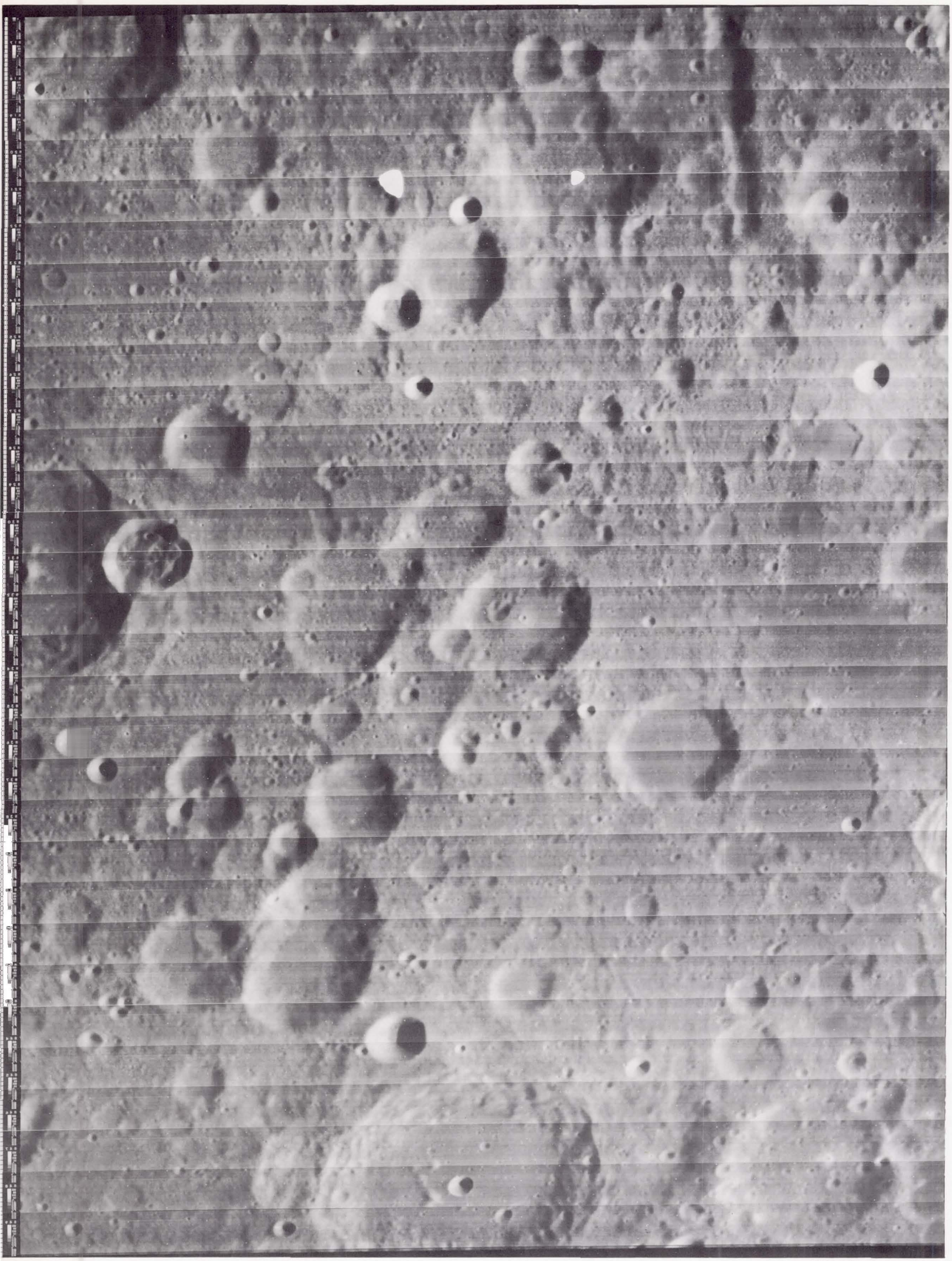
N

PHOTO NO. IV-64 H2

CENTER COORDINATES ..... LONG. 50.55
LAT.—42.56
NORTH DEVIATION (DEG.) ..... 24.65
SUN ANGLE ..... 67.5
SPACECRAFT ALTITUDE (KM) ..... 2972.87

PLATE 437

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-64-H1

CENTER COORDINATES ..... LONG. 50.55
LAT. —42.56
NORTH DEVIATION (DEG.) ..... 24.65
SUN ANGLE ..... 67.5
SPACECRAFT ALTITUDE (KM) ..... 2972.87

N

1 CENTIMETER ≈ 12 KILOMETERS

PONTECOULANT .... G15

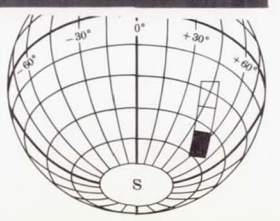
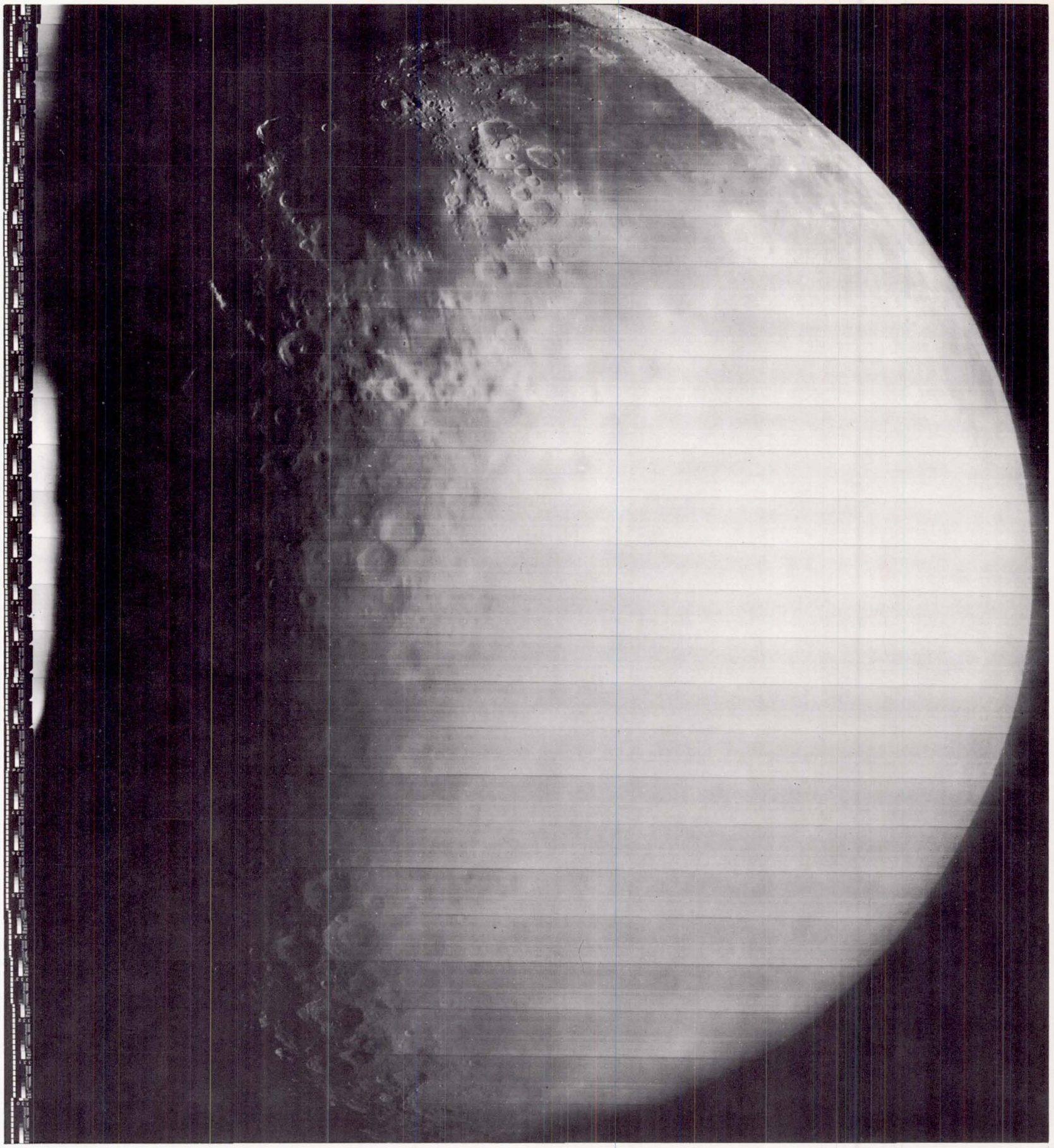
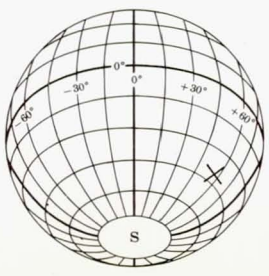



PLATE 438

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS .... G2
MARE NECTARIS ..... E2

1 CENTIMETER ≈ 94 KILOMETERS

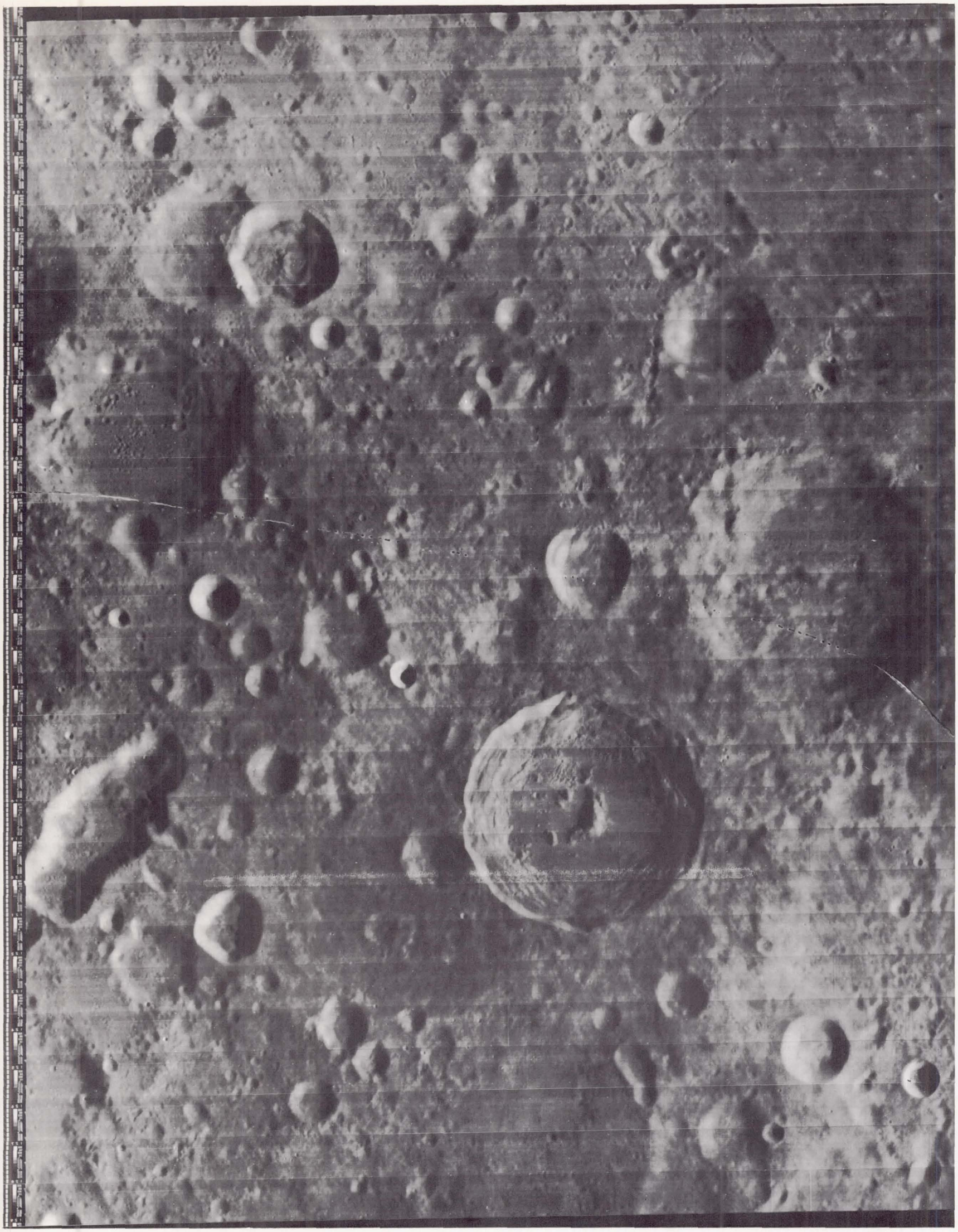



PHOTO NO. IV-59-M

CENTER COORDINATES ..... LONG. 55.0
LAT. −41.7
NORTH DEVIATION (DEG.) ..... 22.9
SUN ANGLE ..... 68.
SPACECRAFT ALTITUDE (KM) ..... 2974.5

PLATE 439

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. *IV-59-H3*

CENTER COORDINATES ..... LONG. 55.05
LAT. −41.75
NORTH DEVIATION (DEG.) ..... 22.95
SUN ANGLE ..... 68.3
SPACECRAFT ALTITUDE (KM) ..... 2974.56

N

1 CENTIMETER ≈ 12 KILOMETERS

SNELLIUS ..... B8
STEVINUS .... E11

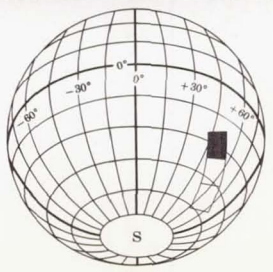
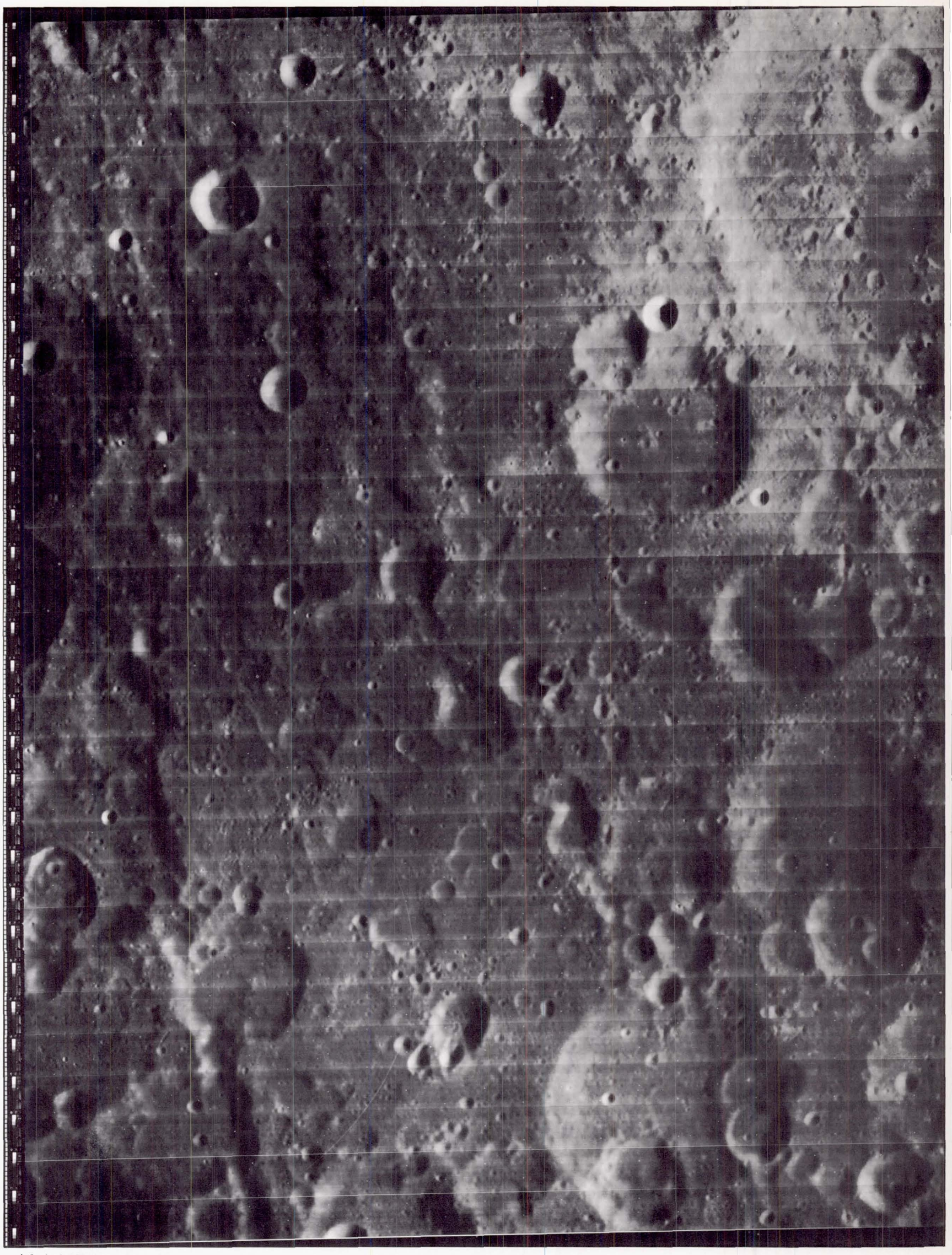
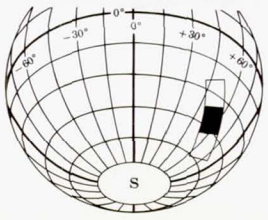



PLATE 440






FRAUNHOFER .... J6
VEGA ..... H15
YOUNG ..... A6

1 CENTIMETER ≈ 12 KILOMETERS

PHOTO NO. IV-59-H2

CENTER COORDINATES ..... LONG. 55.05
LAT. −41.75
NORTH DEVIATION (DEG.) ..... 22.95
SUN ANGLE ..... 68.3
SPACECRAFT ALTITUDE (KM) ..... 2974.56

PLATE 441

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

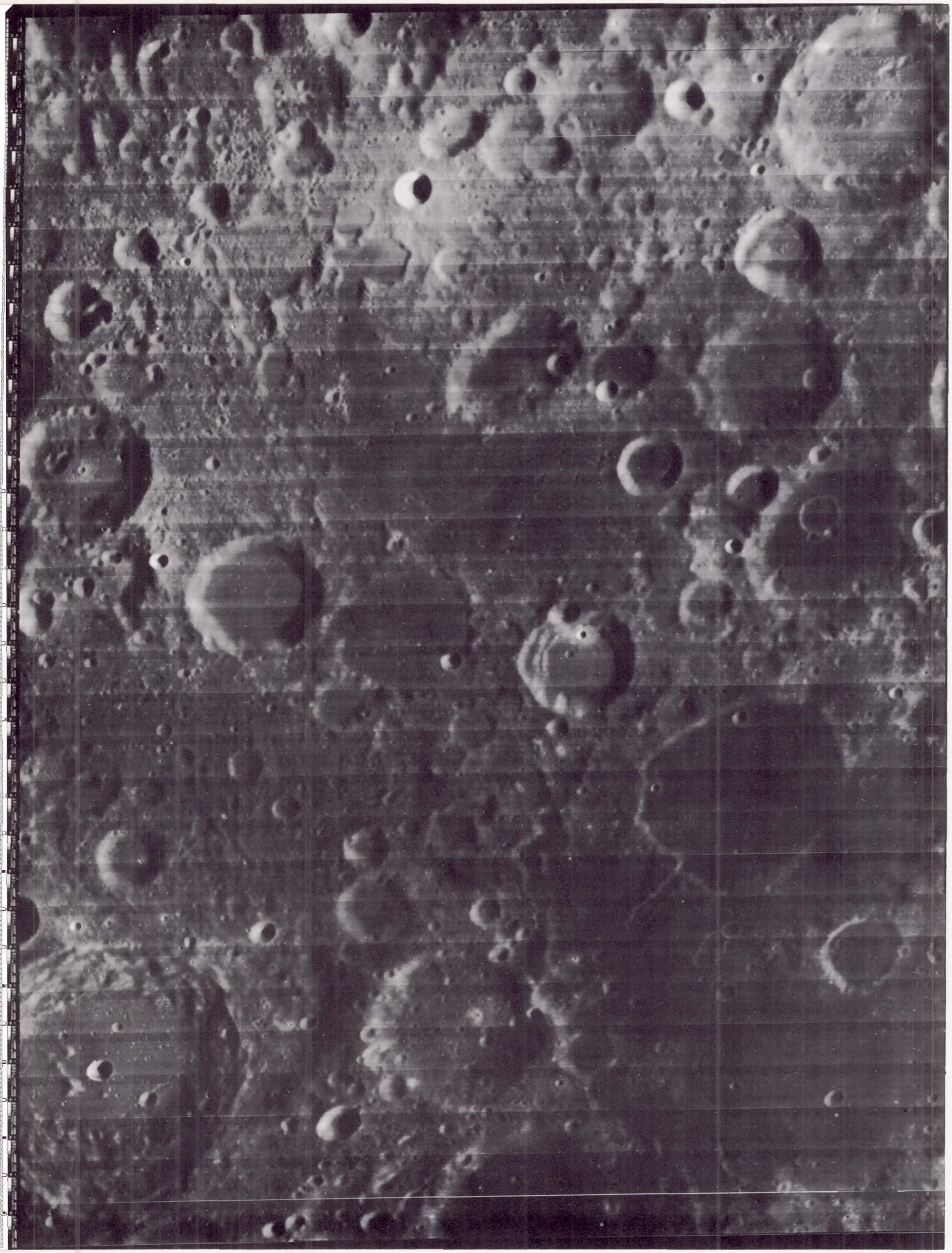


PHOTO NO. IV-59-H1

CENTER COORDINATES ..... LONG. 55.05
LAT. −41.75
NORTH DEVIATION (DEG.) ..... 22.95
SUN ANGLE ..... 68.3
SPACECRAFT ALTITUDE (KM) ..... 2974.56

N

1 CENTIMETER ≈ 12 KILOMETERS

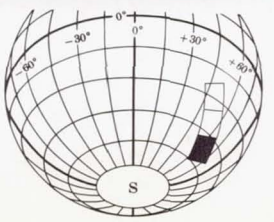
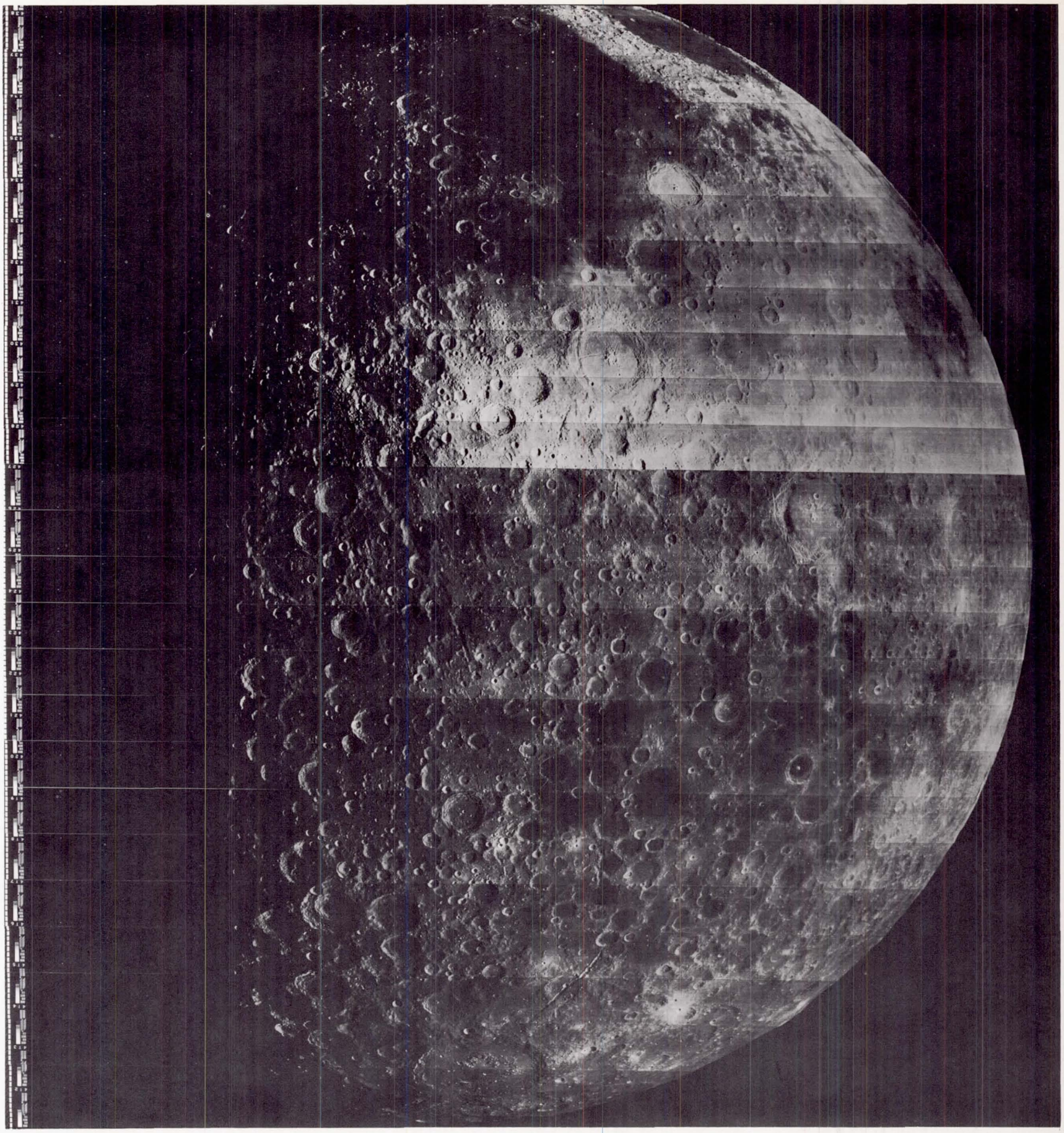
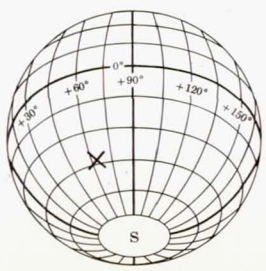



PLATE 442

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE AUSTRALE ..... K8
MARE FECUNDITATIS ..... F2
MARE NECTARIS ..... D3
MARE SMYTHII ..... L4

1 CENTIMETER ≈ 95 KILOMETERS

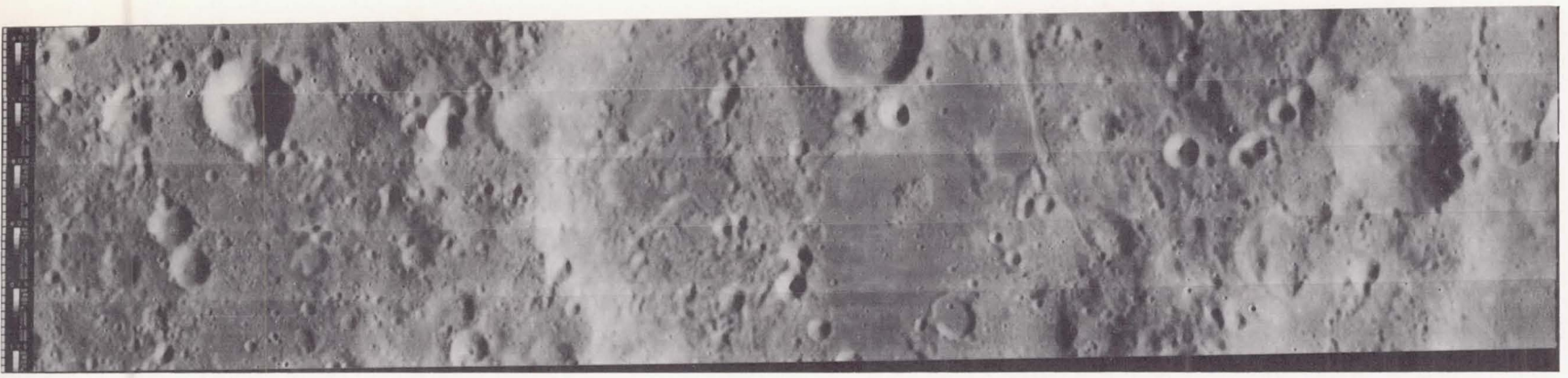



PHOTO NO. IV-52-M

CENTER COORDINATES ..... LONG. 63.81
LAT. −42.90
NORTH DEVIATION (DEG.) ..... 24.59
SUN ANGLE ..... 66.9
SPACECRAFT ALTITUDE (KM) ..... 2976.4

PLATE 443

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-52-H3

ENTER COORDINATES ..... LONG. 63.80
LAT. –42.91
ORTH DEVIATION (DEG.) ..... 24.59
N ANGLE ..... 66.9
ACECRAFT ALTITUDE (KM) ..... 2976.44

N

1 CENTIMETER ≈12 KILOMETERS

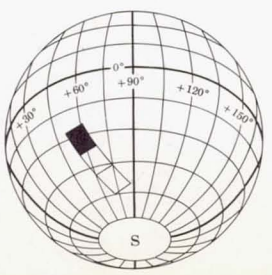
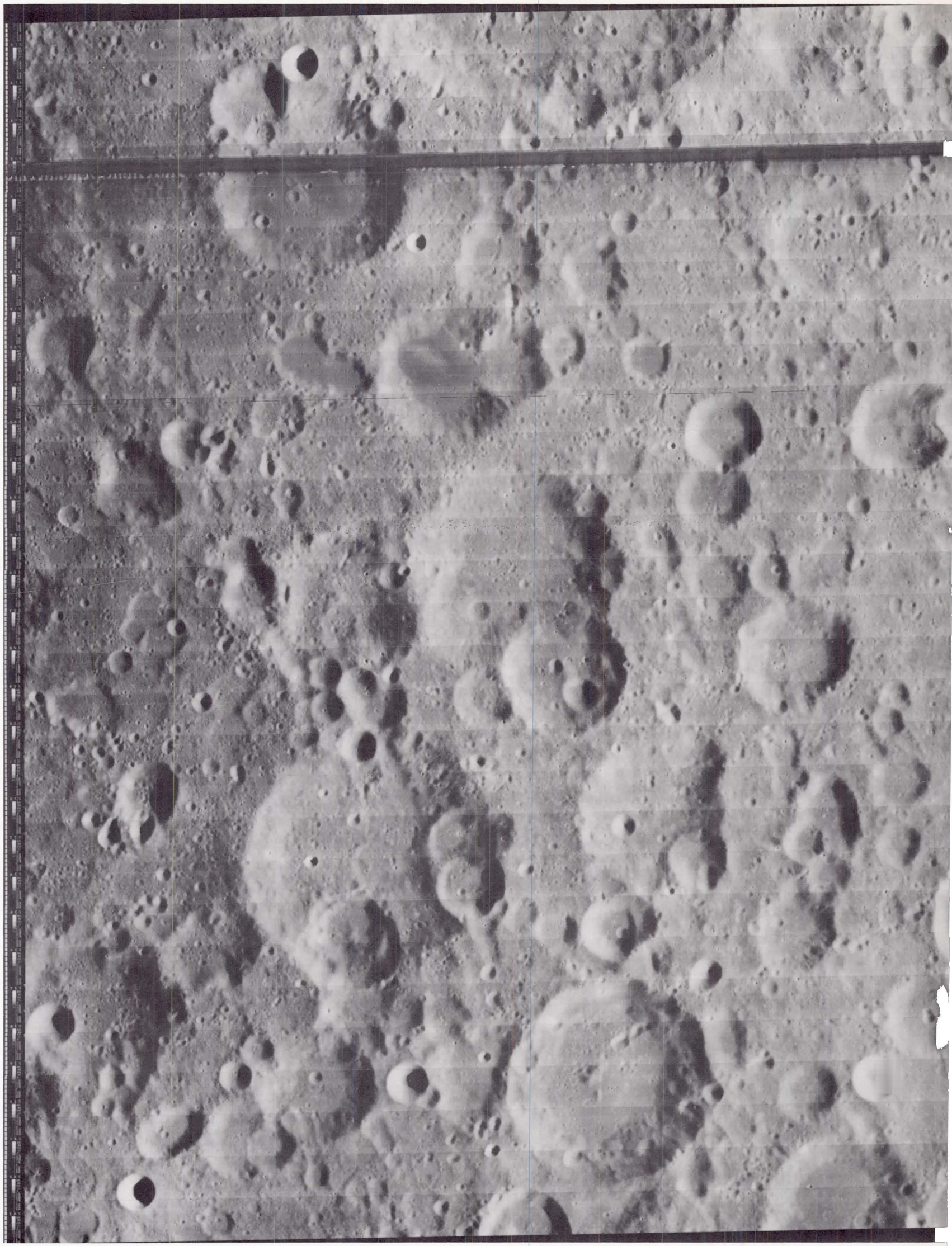
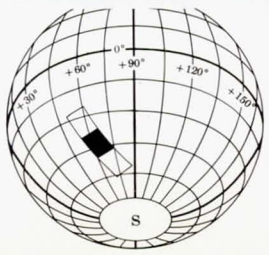



PLATE 444

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






FURNERIUS ..... G1
PEIRESCIUS .... H14
VEGA ..... E11

1 CENTIMETER ≈ 12 KILOMETERS

N

PHOTO NO. IV-52-H2

CENTER COORDINATES ..... LONG. 63.
LAT. –42.
NORTH DEVIATION (DEG.) ..... 24.
SUN ANGLE ..... 6
SPACECRAFT ALTITUDE (KM) ..... 2976.

PLATE 445

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

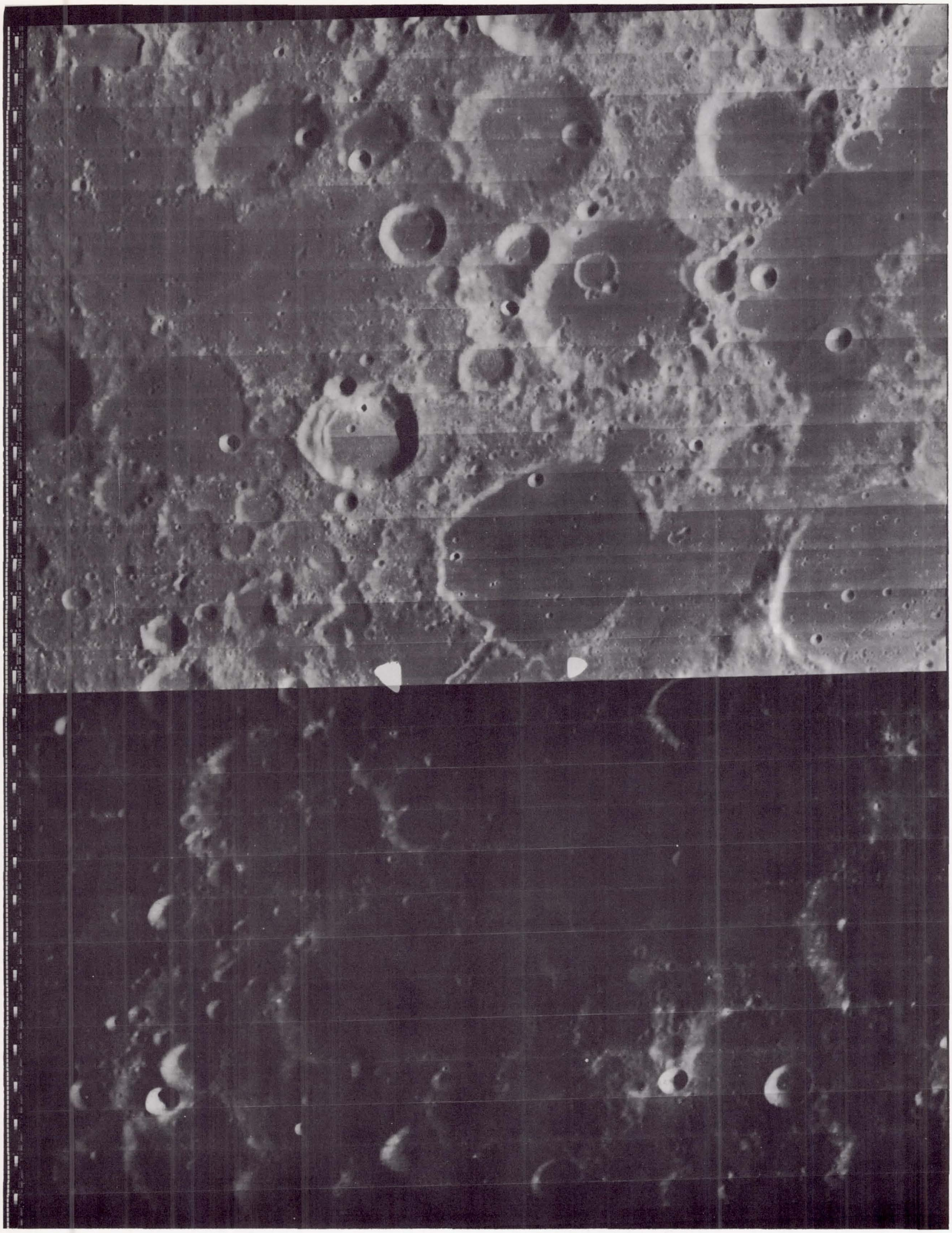


PHOTO NO. IV-52-H1

CENTER COORDINATES ..... LONG. 63.80
LAT. −42.91
NORTH DEVIATION (DEG.) ..... 24.59
SUN ANGLE ..... 66.9
SPACECRAFT ALTITUDE (KM) ..... 2976.44

N

1 CENTIMETER ≈ 12 KILOMETERS

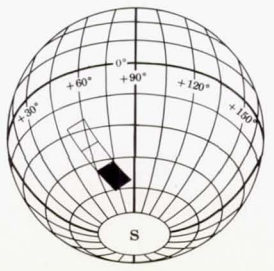
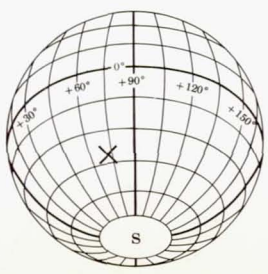



PLATE 446

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 95 KILOMETERS

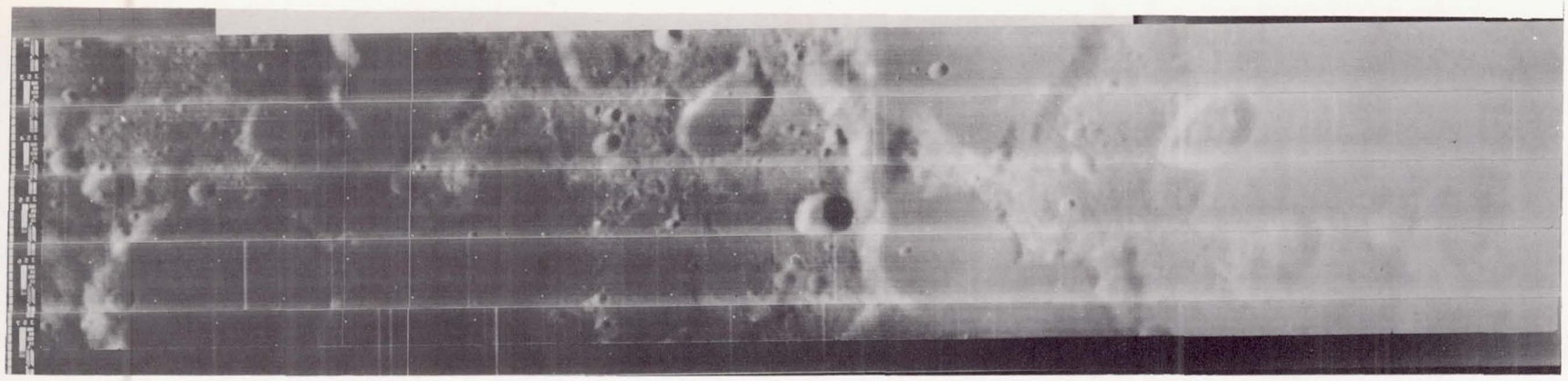



PHOTO NO. IV-45-M

CENTER COORDINATES ..... LONG. 71.80
LAT. −42.41
NORTH DEVIATION (DEG.) ..... 24.82
SUN ANGLE ..... 65.5
SPACECRAFT ALTITUDE (KM) ..... 2979.04

PLATE 447

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-45-H1

CENTER COORDINATES ..... LONG. 71.80
LAT. −42.41
NORTH DEVIATION (DEG.) ..... 24.82
SUN ANGLE ..... 65.5
SPACECRAFT ALTITUDE (KM) ..... 2979.04




1 CENTIMETER ≈ 12 KILOMETERS

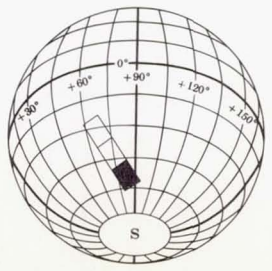
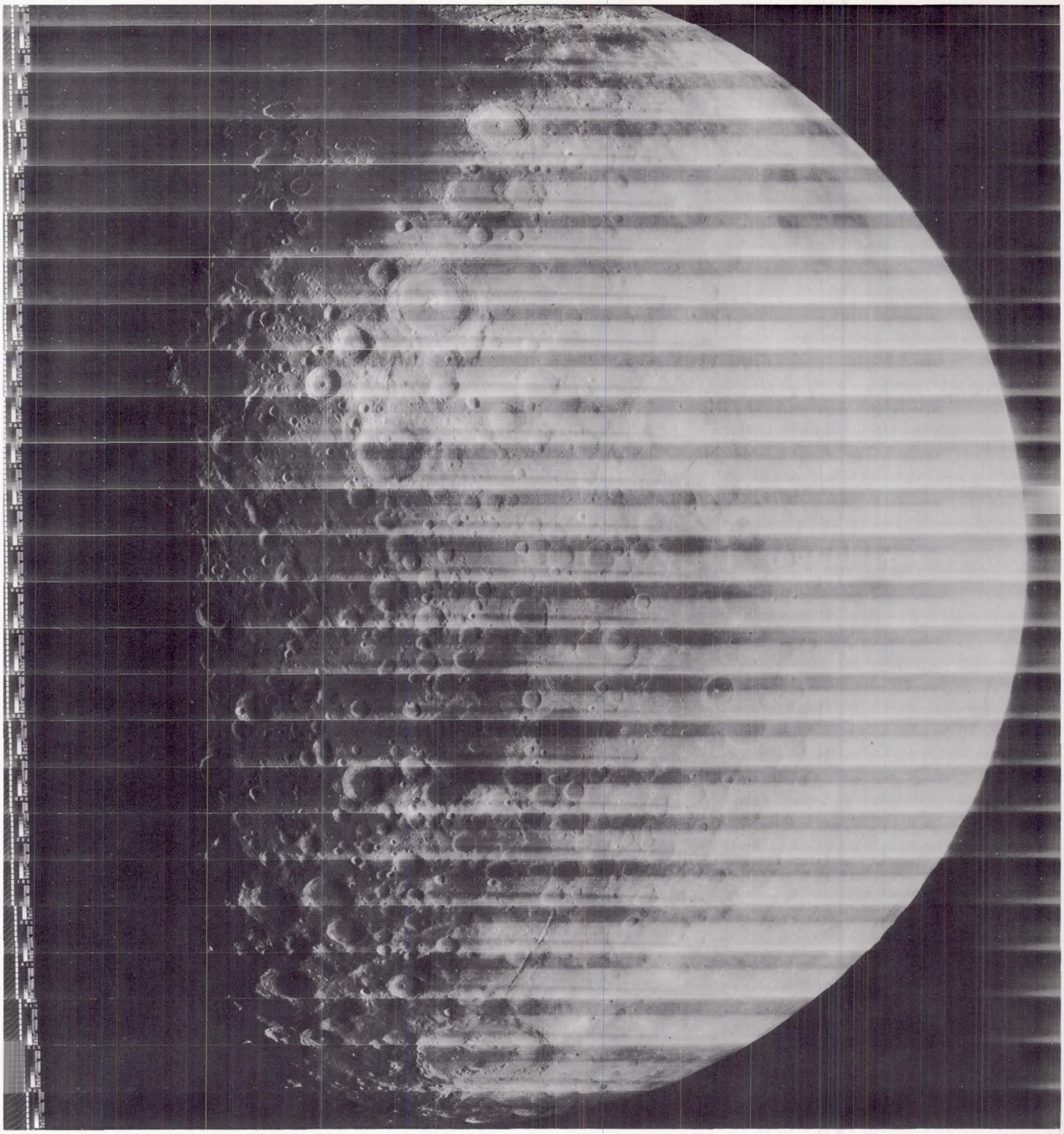
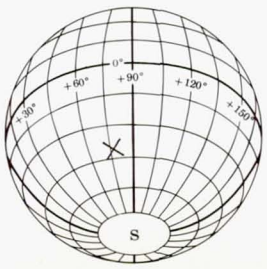



PLATE 448

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS .... E2

1 CENTIMETER ≈ 95 KILOMETERS

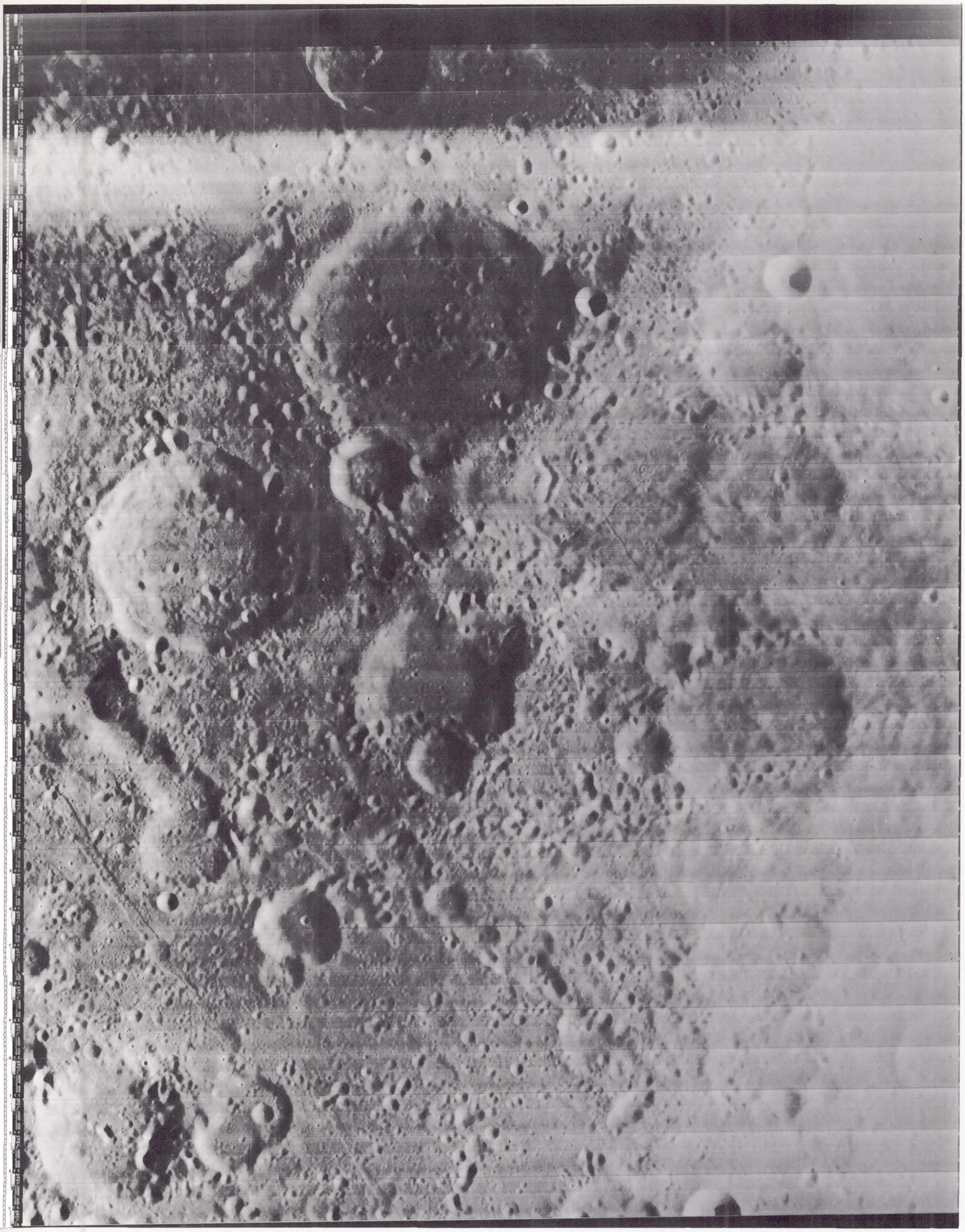
N

PHOTO NO. IV-38-M

CENTER COORDINATES ..... LONG. 77.77
LAT. −42.63
NORTH DEVIATION (DEG.) ..... 24.82
SUN ANGLE ..... 65.€
SPACECRAFT ALTITUDE (KM) ..... 2981.57

PLATE 449

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-38-H3

CENTER COORDINATES ..... LONG. 77.77
LAT. –42.64
NORTH DEVIATION (DEG.) ..... 24.82
SUN ANGLE ..... 65.6
SPACECRAFT ALTITUDE (KM) ..... 2981.5 7

N

1 CENTIMETER ≈12 KILOMETERS

ADAMS ..... K7
LEGENDRE .... G4

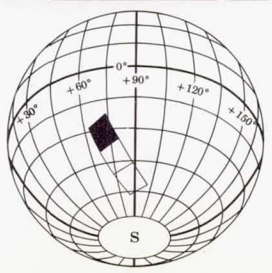
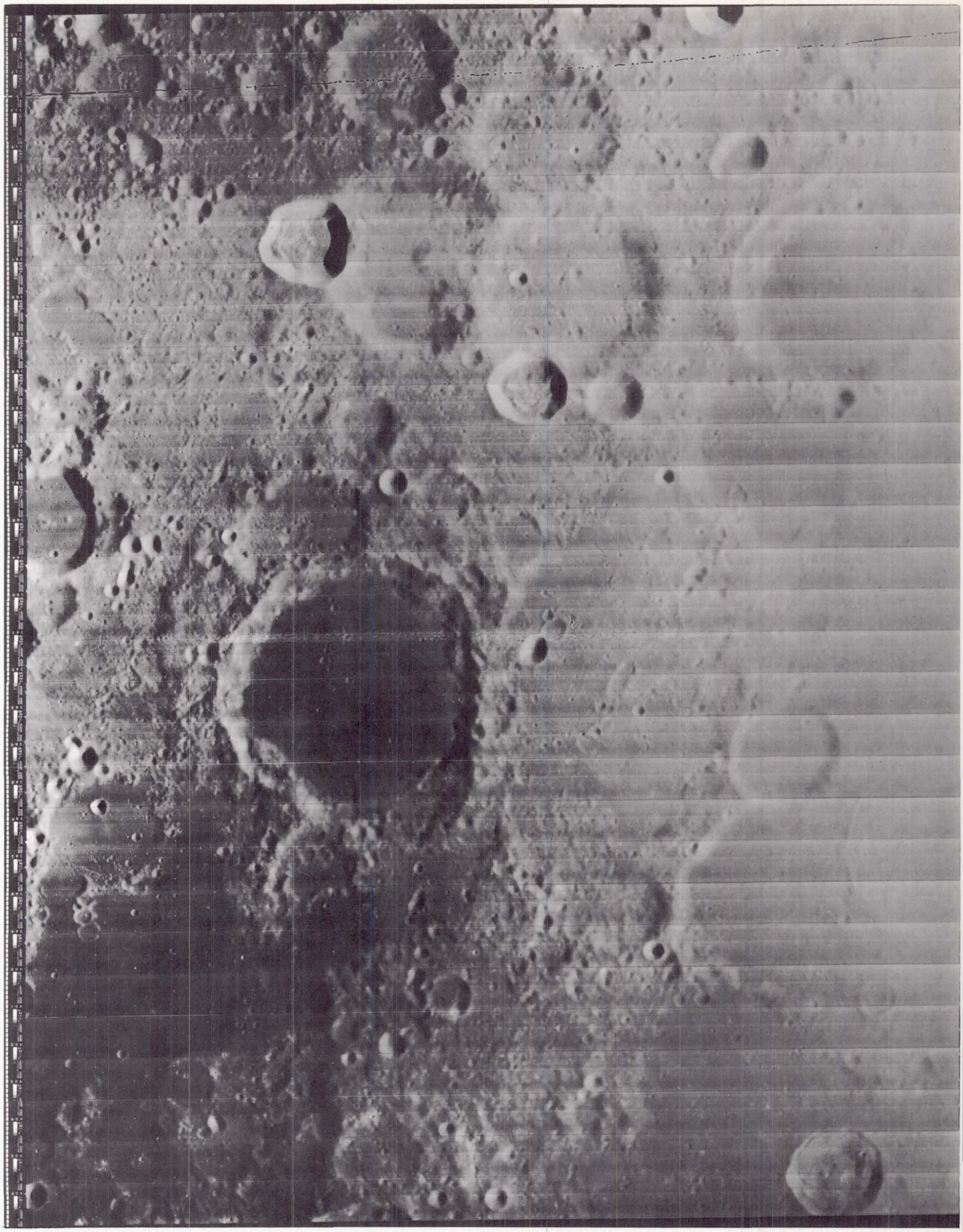
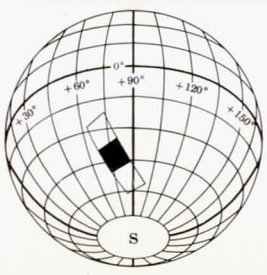



PLATE 450

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






OKEN.... E9

1 CENTIMETER ≈ 12 KILOMETERS

N

PHOTO NO. IV-38-H2

CENTER COORDINATES ..... LONG. 77.77
LAT. −42.64
NORTH DEVIATION (DEG.) ..... 24.82
SUN ANGLE ..... 65.6
SPACECRAFT ALTITUDE (KM) ..... 2981.59

PLATE 451

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

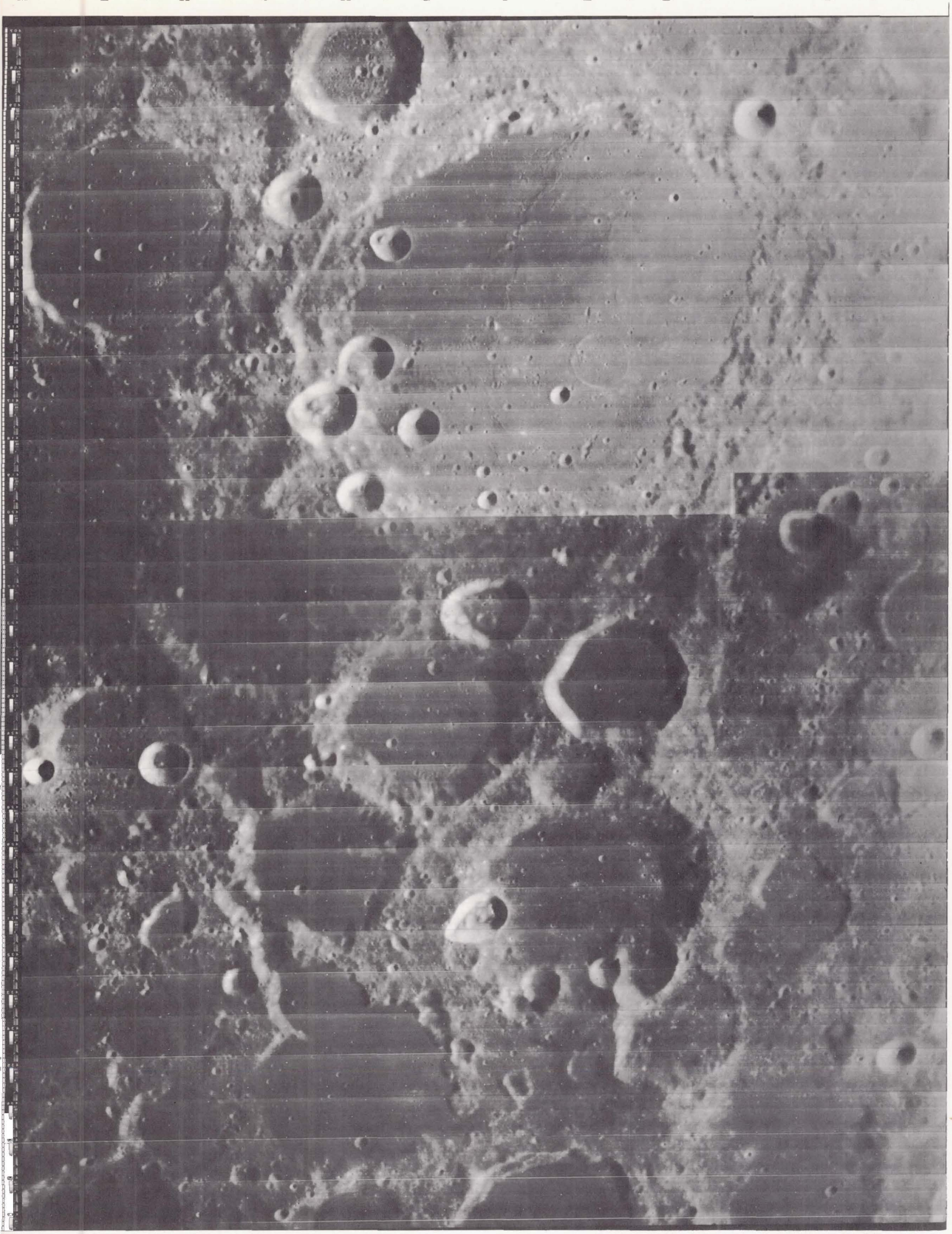


PHOTO NO. IV-38-H1

CENTER COORDINATES ..... LONG. 77.77
LAT. −42.64
NORTH DEVIATION (DEG.) ..... 24.82
SUN ANGLE ..... 65.6
SPACECRAFT ALTITUDE (KM) ..... 2981.59

N

1 CENTIMETER ≈ 12 KILOMETERS

LYOT.... E4

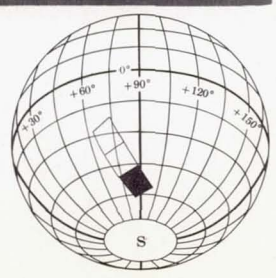
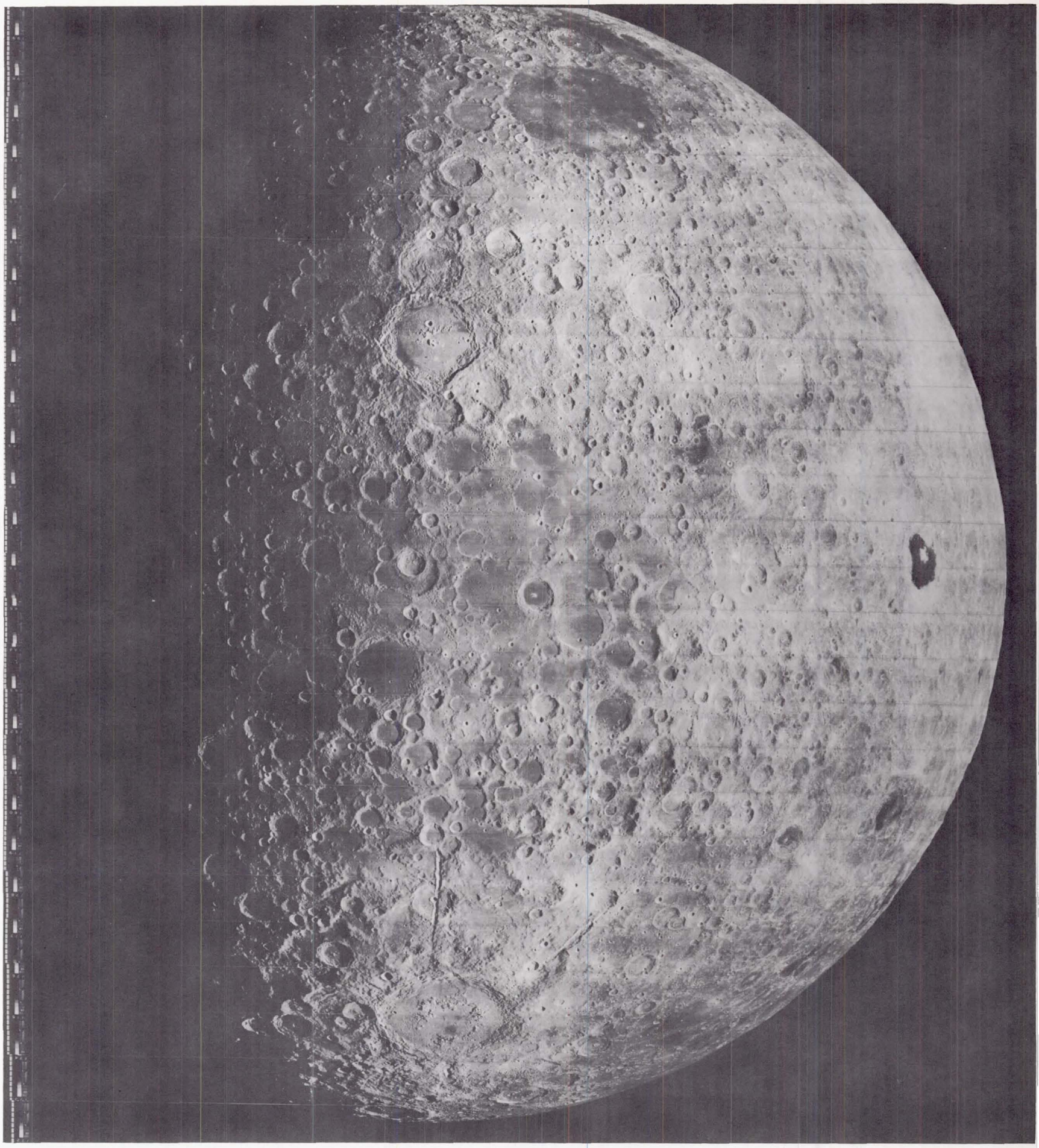
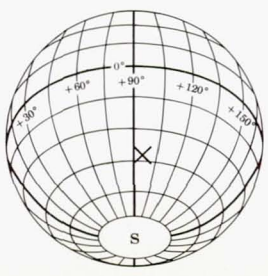



PLATE 452

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HUMBOLDT ..... E4
LYOT ..... E8
MARE AUSTRALE .... G6
MARE SMYTHII ..... G2

1 CENTIMETER ≈ 95 KILOMETERS

N

PHOTO NO. IV-9-M

CENTER COORDINATES ..... LONG. 96.20
LAT. −41.79
NORTH DEVIATION (DEG.) ..... 23.58
SUN ANGLE ..... 65.2
SPACECRAFT ALTITUDE (KM) ..... 2989.12

PLATE 453

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO IV-9-H3

CENTER COORDINATES ..... LONG. 96.20
LAT. −41.79
NORTH DEVIATION (DEG.) ..... 23.58
SUN ANGLE ..... 65.2
SPACECRAFT ALTITUDE (KM) ..... 2989.14

N

1 CENTIMETER ≈ 12 KILOMETERS

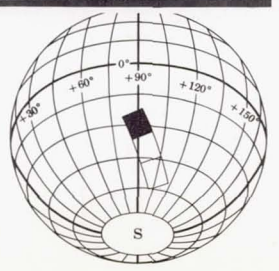
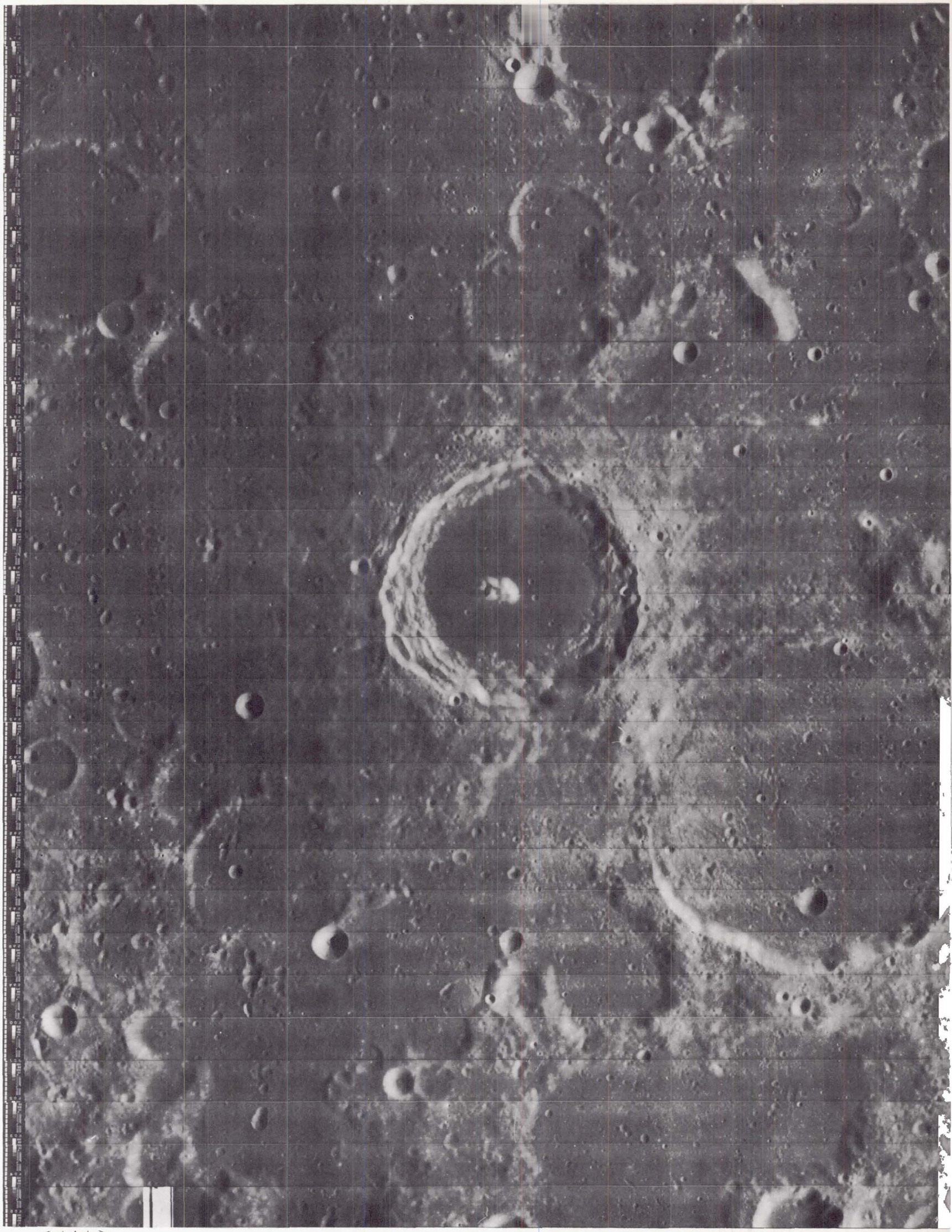
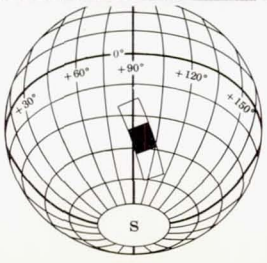



PLATE 454

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 12 KILOMETERS

N

PHOTO NO. IV-9-H2

| | |
|---|---|
| CENTER COORDINATES | LONG. 96.20 |
| | LAT. −41.79 |
| NORTH DEVIATION (DEG.) | 23.58 |
| SUN ANGLE | 65.2 |
| SPACECRAFT ALTITUDE (KM) | 2989.14 |

PLATE 455

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

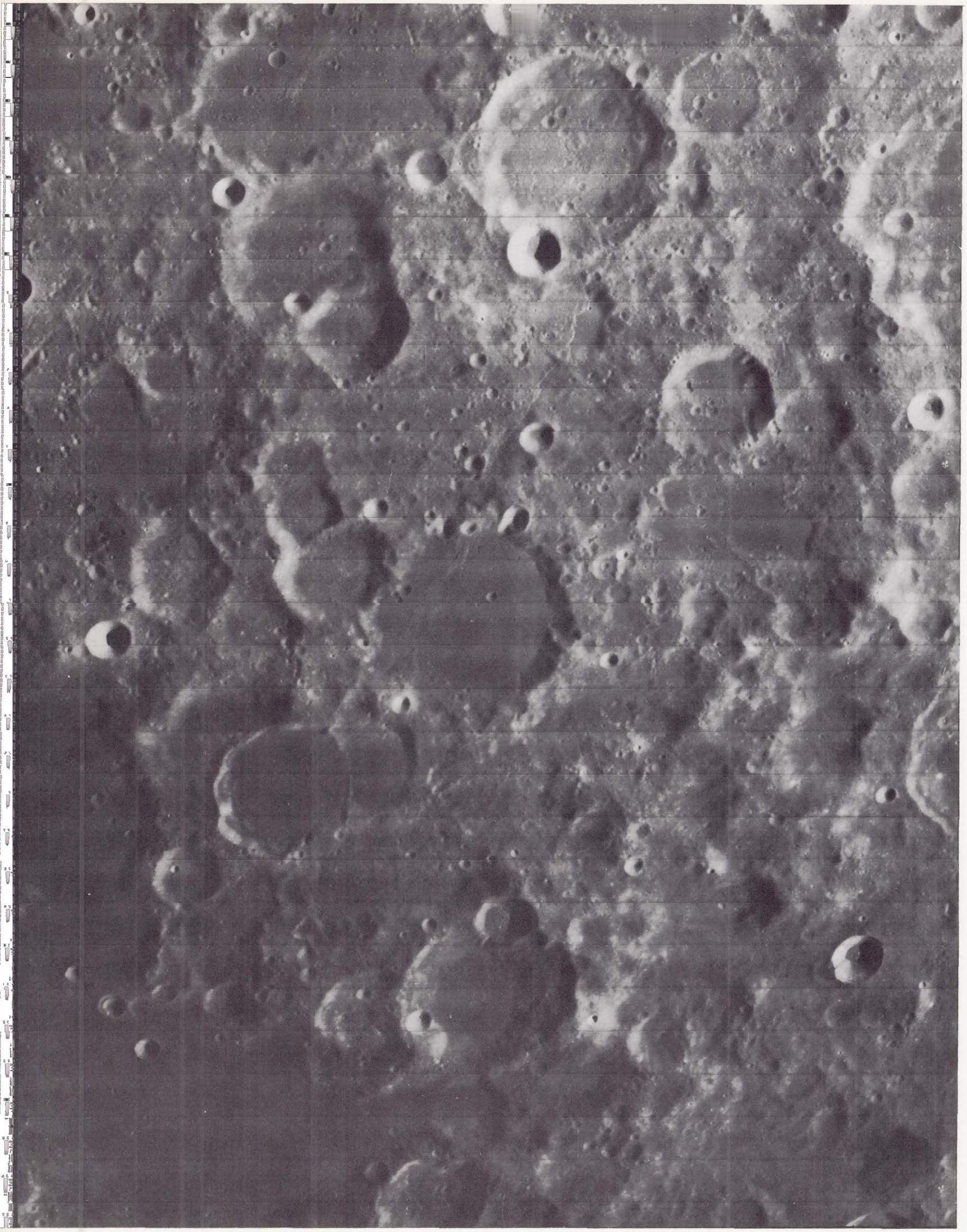


PHOTO NO. IV-9-H1

CENTER COORDINATES ..... LONG. 96.20
LAT. −41.79
NORTH DEVIATION (DEG.) ..... 23.58
SUN ANGLE ..... 65.2
SPACECRAFT ALTITUDE (KM) ..... 2989.14

N

1 CENTIMETER ≈ 12 KILOMETERS

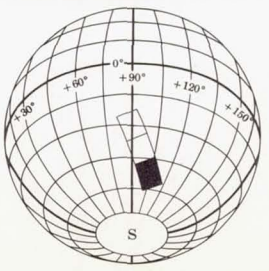
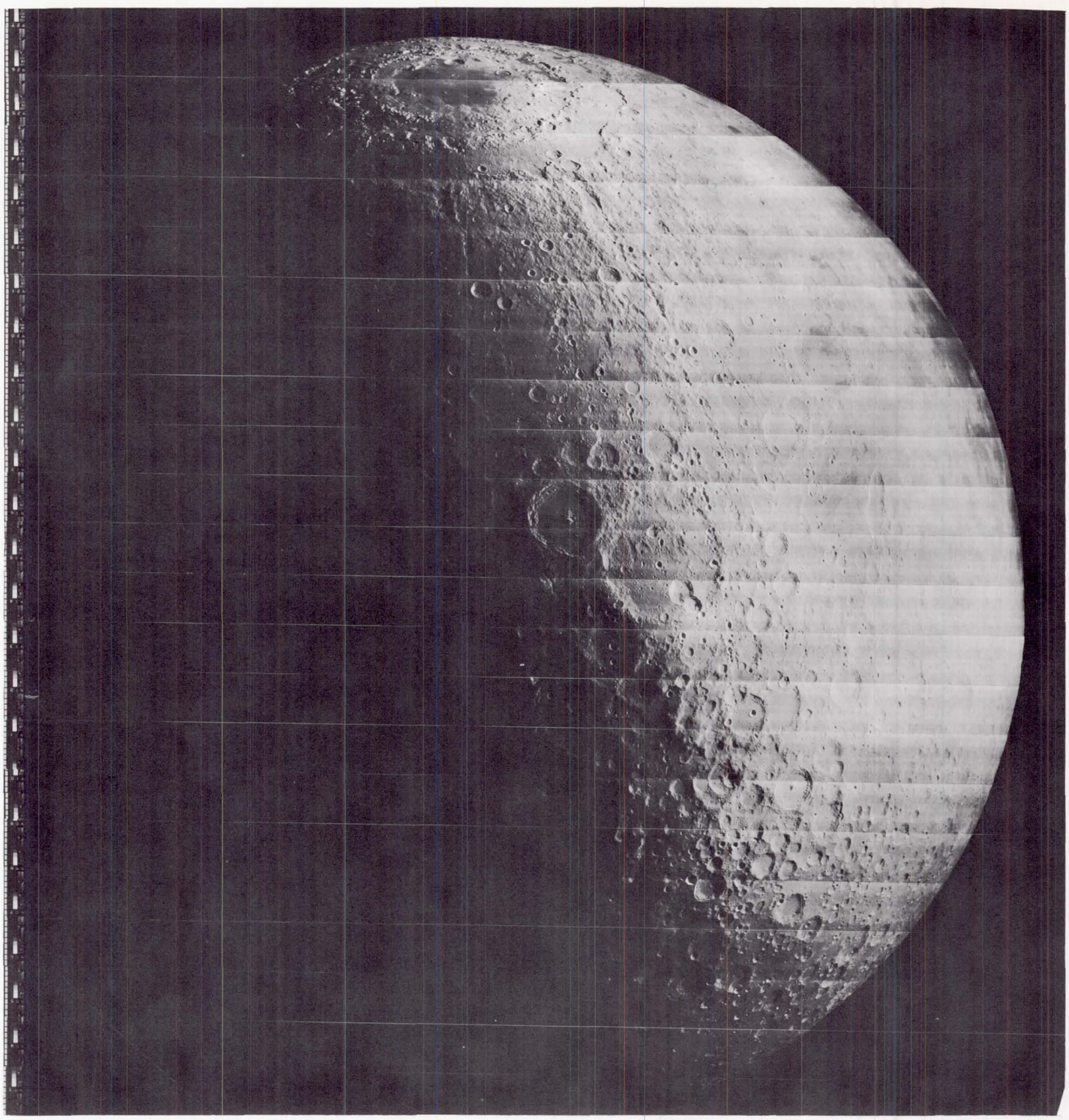
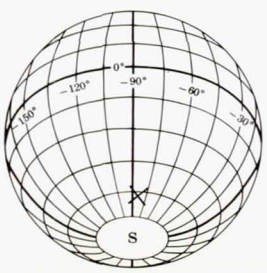



PLATE 456






BAILLY ..... H6
CLAVIUS ..... J5
MARE ORIENTALE ... E1

1 CENTIMETER ≈112 KILOMETERS

N

PHOTO NO. IV-193-M

CENTER COORDINATES ..... LONG −85.98
LAT. −63.88
NORTH DEVIATION (DEG.) ..... 0.60
SUN ANGLE ..... 80.7
SPACECRAFT ALTITUDE (KM) ... 3519.17

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-193-H3

CENTER COORDINATES ..... LONG. −85.97
LAT. −63.89
NORTH DEVIATION (DEG.) ..... 0.61
SUN ANGLE ..... 80.7
SPACECRAFT ALTITUDE (KM) ..... 3519.21

N

1 CENTIMETER ≈ 15 KILOMETERS

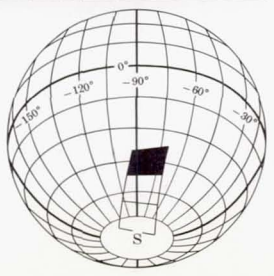
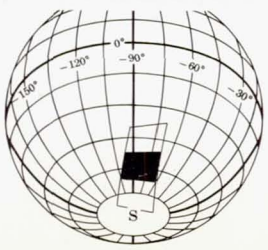



PLATE 458

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HAUSEN.... E8

1 CENTIMETER ≈ 15 KILOMETERS

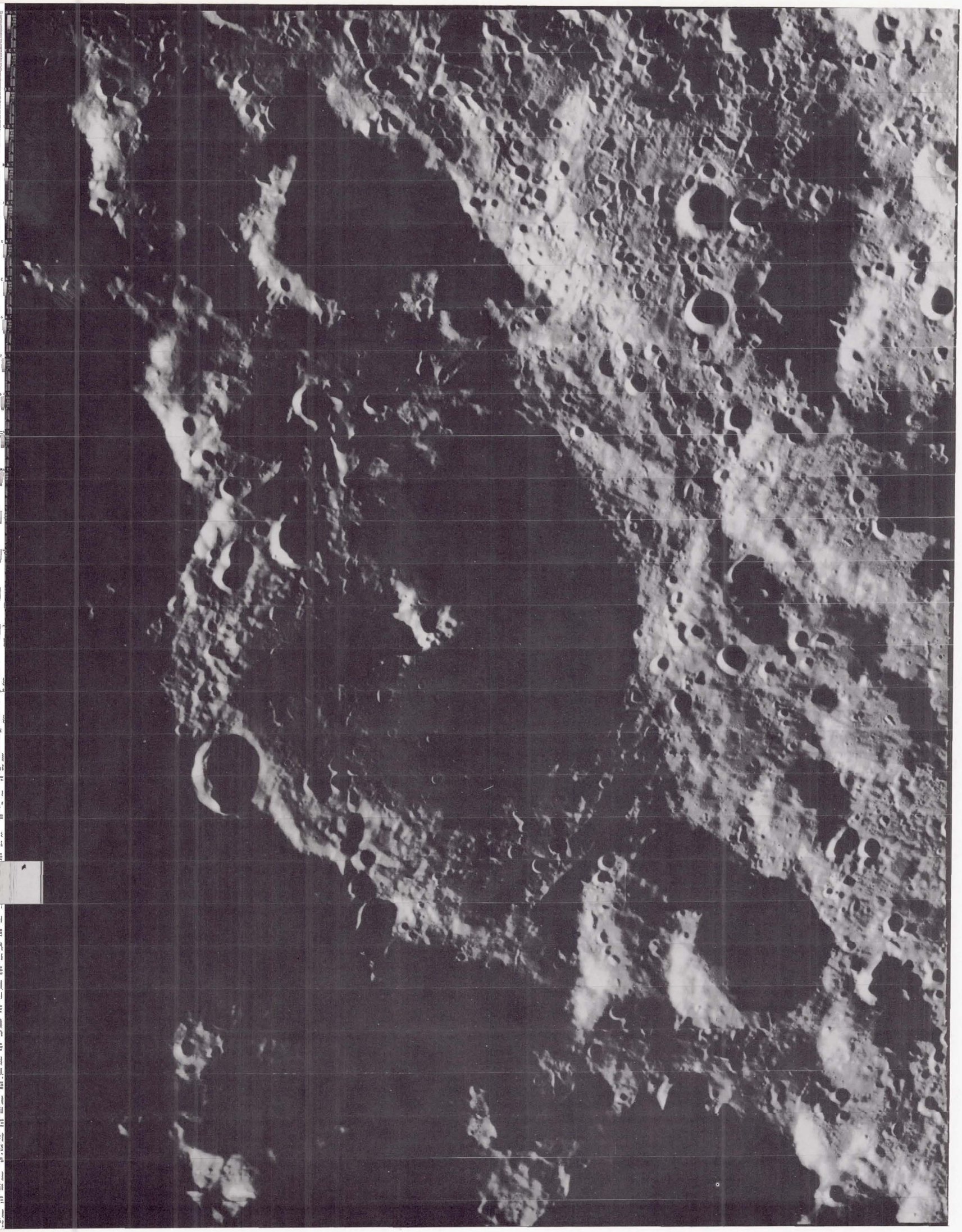
N

PHOTO NO. IV-193-H2

CENTER COORDINATES ..... LONG.–85.97
LAT. –63.89
NORTH DEVIATION (DEG.) ..... 0.61
SUN ANGLE ..... 80.7
SPACECRAFT ALTITUDE (KM) ..... 3519.21

PLATE 459

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-193-H1

CENTER COORDINATES ..... LONG. −85.97
LAT. −63.89
NORTH DEVIATION (DEG.) ..... 0.61
SUN ANGLE ..... 80.7
SPACECRAFT ALTITUDE (KM) ..... 3519.21

N

1 CENTIMETER ≈ 15 KILOMETERS

DRYGALSKI .... G8

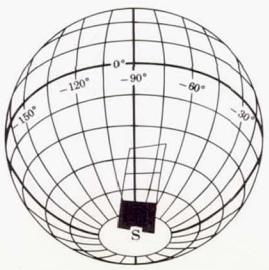
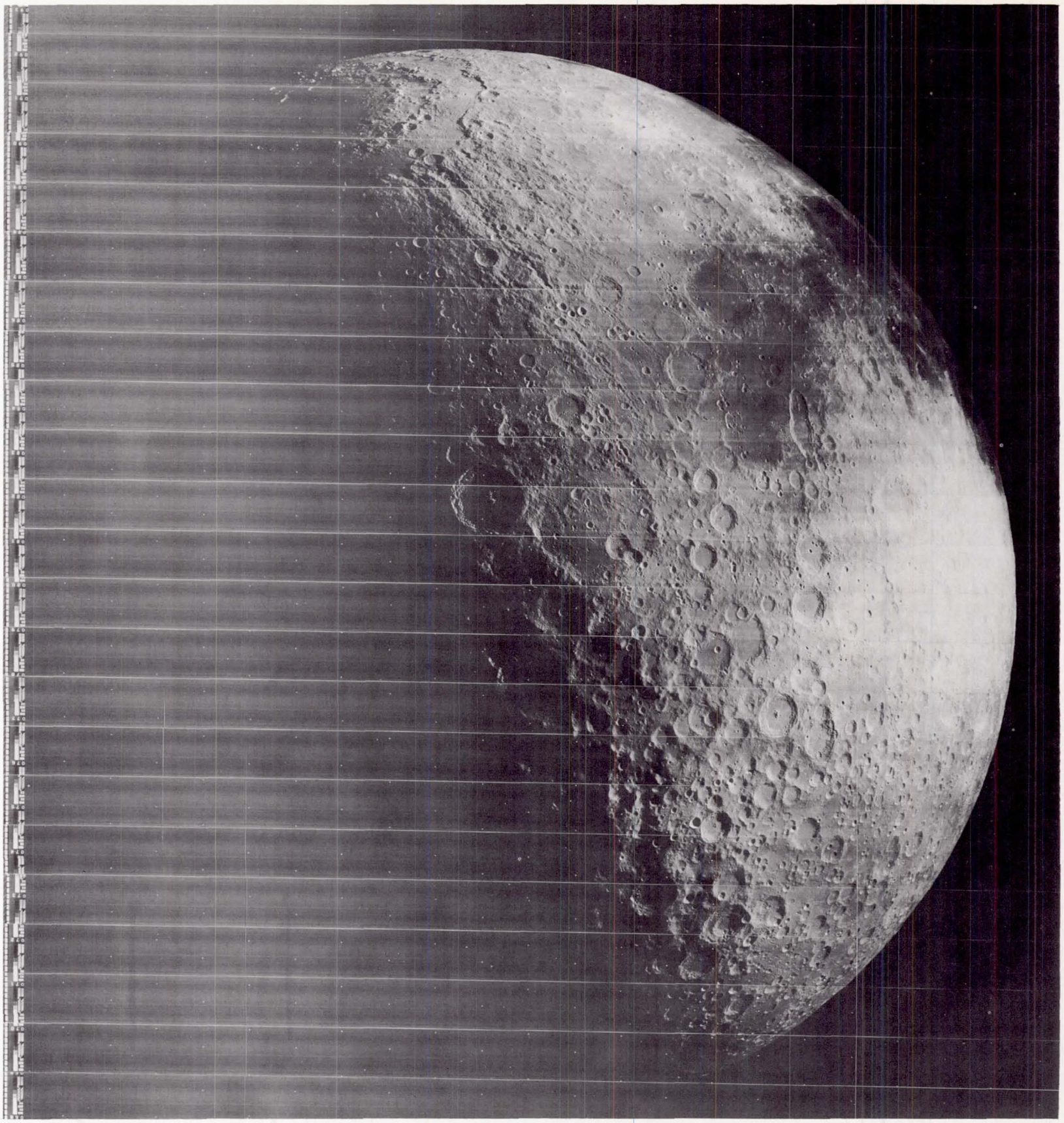
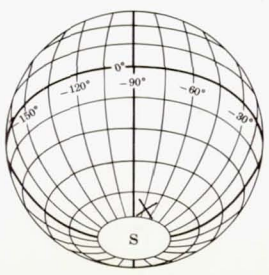



PLATE 460

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| BAILLY | G6 |
| MARE ORIENTALE | D2 |
| SCHICKARD | H4 |
| SCHILLER | J5 |

1 CENTIMETER≈149 KILOMETERS

N

PHOTO NO. IV-179-M

| | |
|---|---|
| CENTER COORDINATES | LONG. −74.0° |
| | LAT. −69.5° |
| NORTH DEVIATION (DEG.) | 0.3° |
| SUN ANGLE | 82.9° |
| SPACECRAFT ALTITUDE (KM) | 3591.7 |

PLATE 461

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

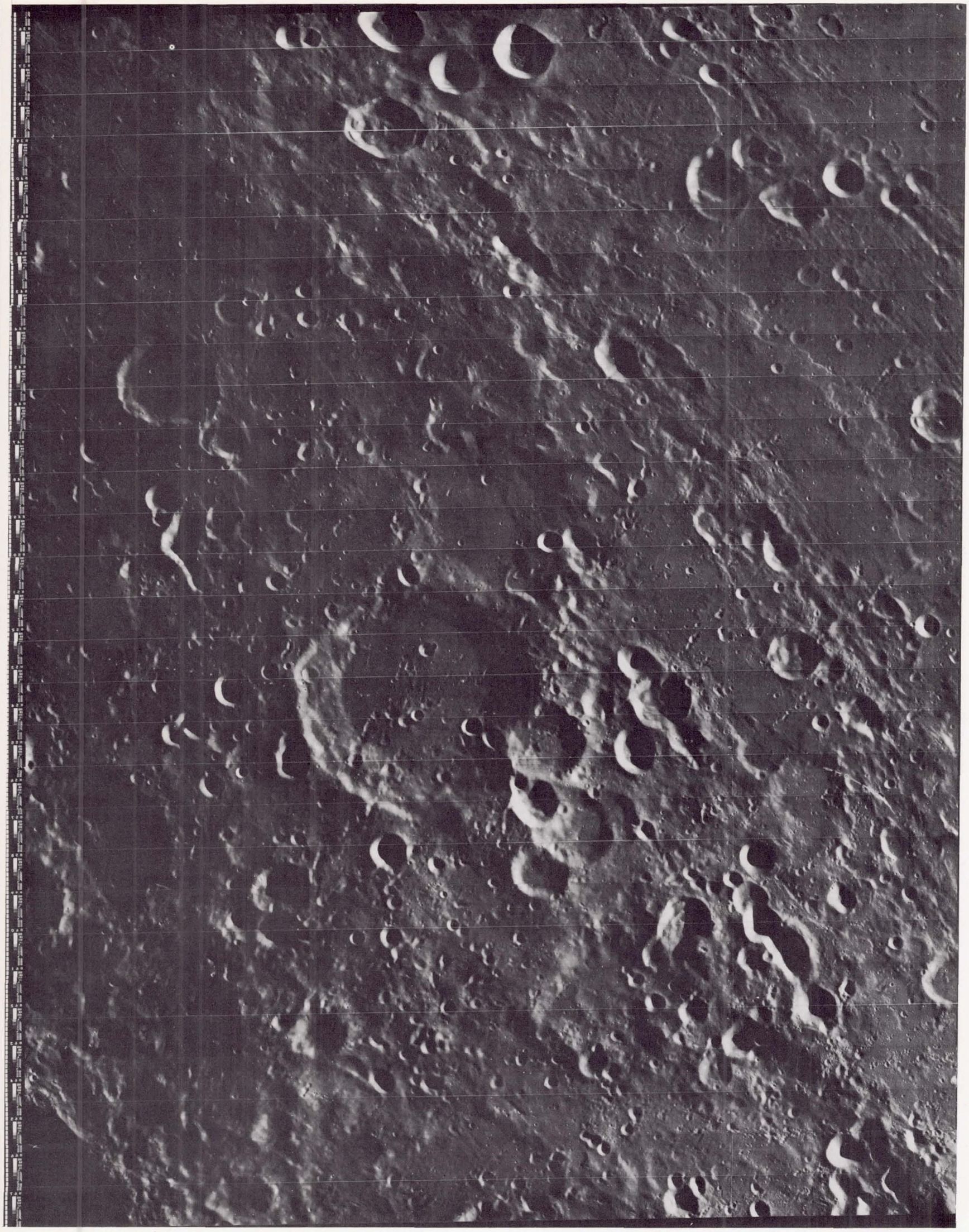


PHOTO NO. IV-179-H3

CENTER COORDINATES ..... LONG. —74.07
LAT. —69.52
NORTH DEVIATION (DEG.) ..... 0.37
SUN ANGLE ..... 82.9
SPACECRAFT ALTITUDE (KM) ..... 3591.83

N

1 CENTIMETER ≈ 11 KILOMETERS

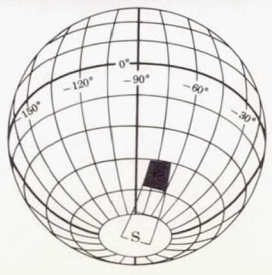
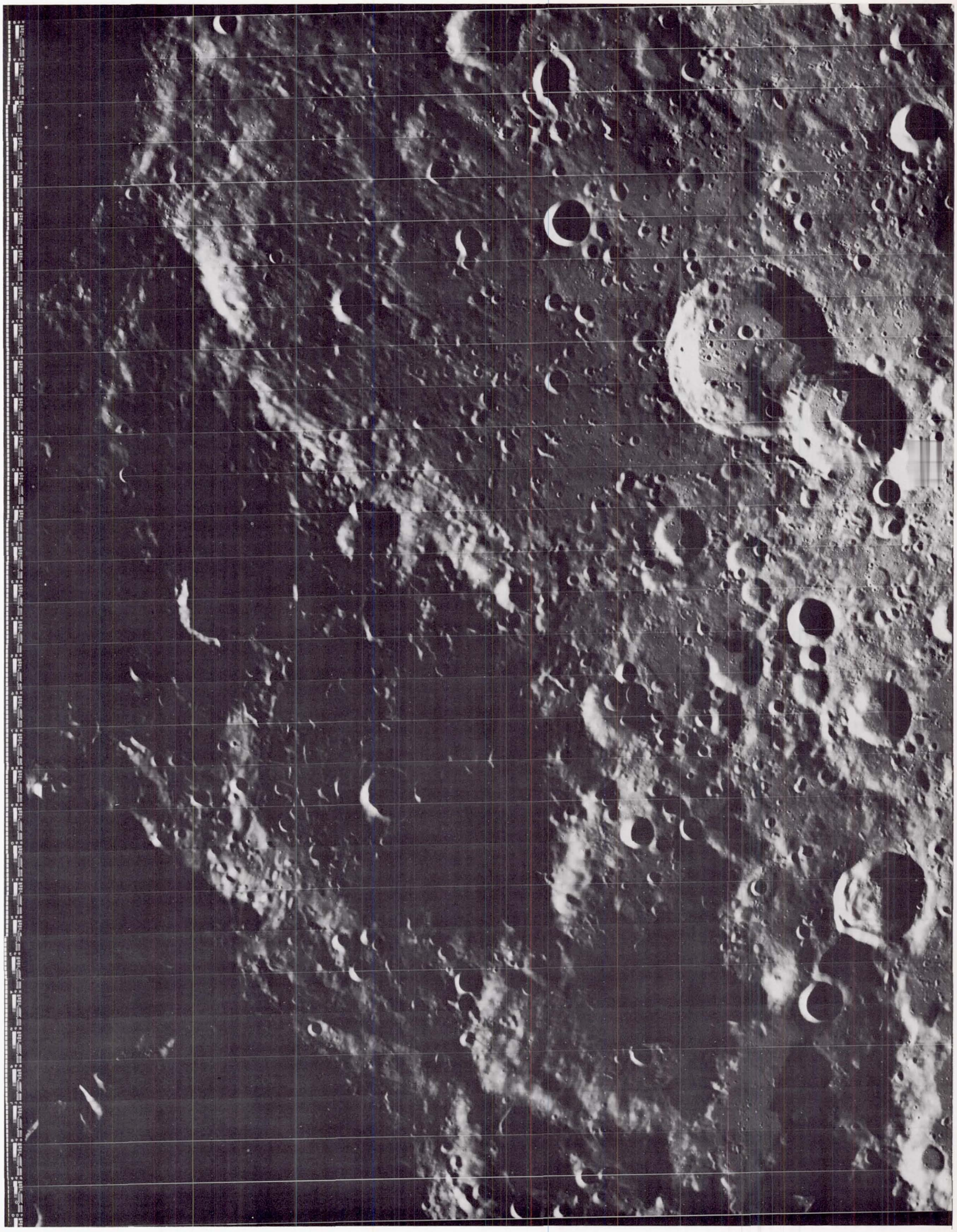
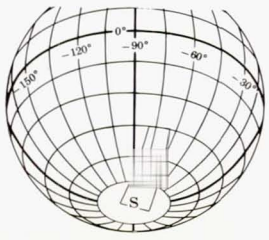



PLATE 462

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BAILLY . . . . . G3
LEGENTIL . . . . . F10

1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO. IV-179-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. —74.07 |
| | LAT. —69.52 |
| NORTH DEVIATION (DEG.) ..... | 0.37 |
| SUN ANGLE ..... | 82.9 |
| SPACECRAFT ALTITUDE (KM) ..... | 3591.83 |

PLATE 463

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

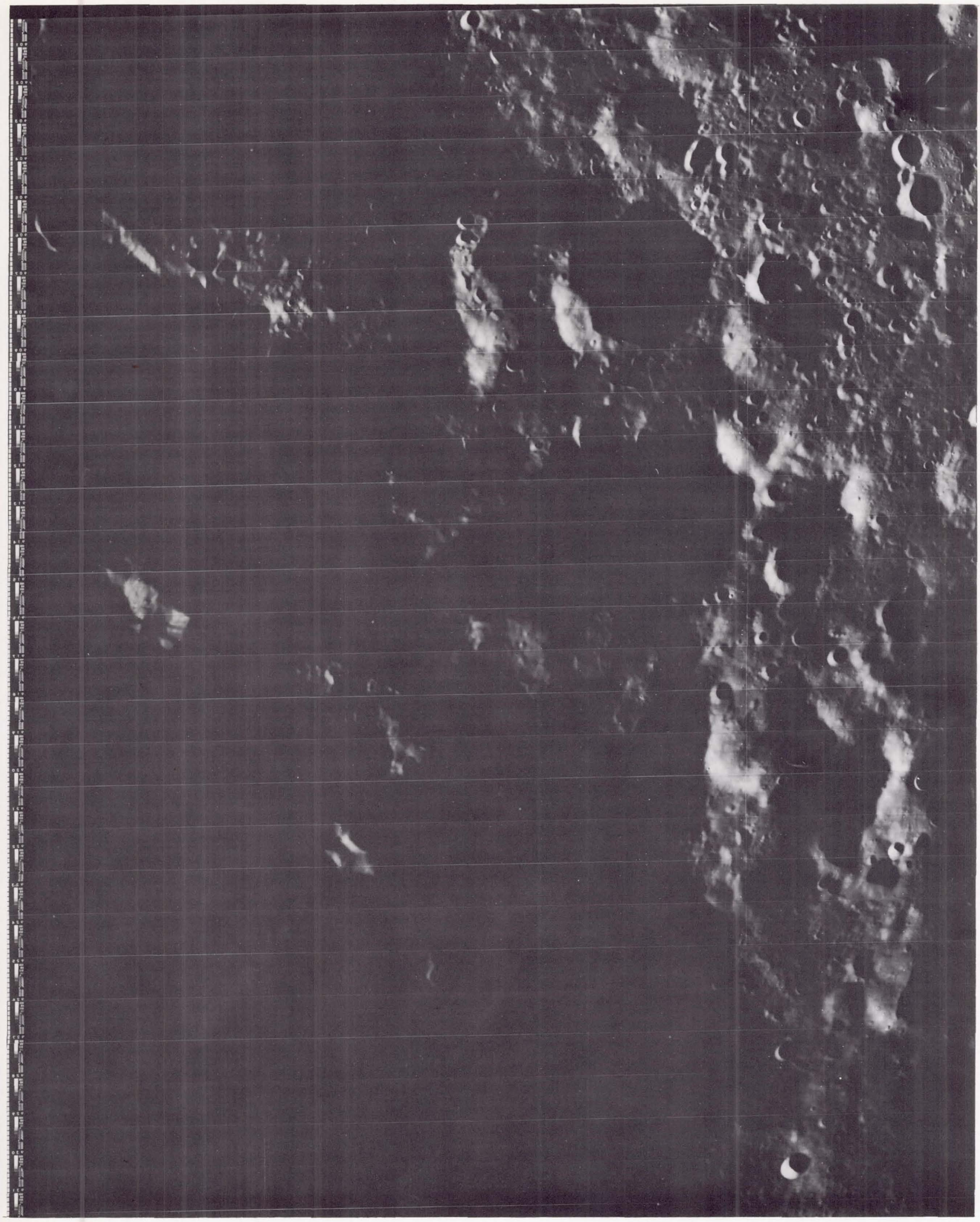


PHOTO NO. IV-179-H1

CENTER COORDINATES ..... LONG.—74.07
LAT. —69.52
NORTH DEVIATION (DEG.) ..... 0.37
SUN ANGLE ..... 82.9
SPACECRAFT ALTITUDE (KM) ..... 3591.83

N

1 CENTIMETER ≈ 11 KILOMETERS

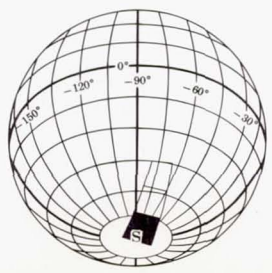
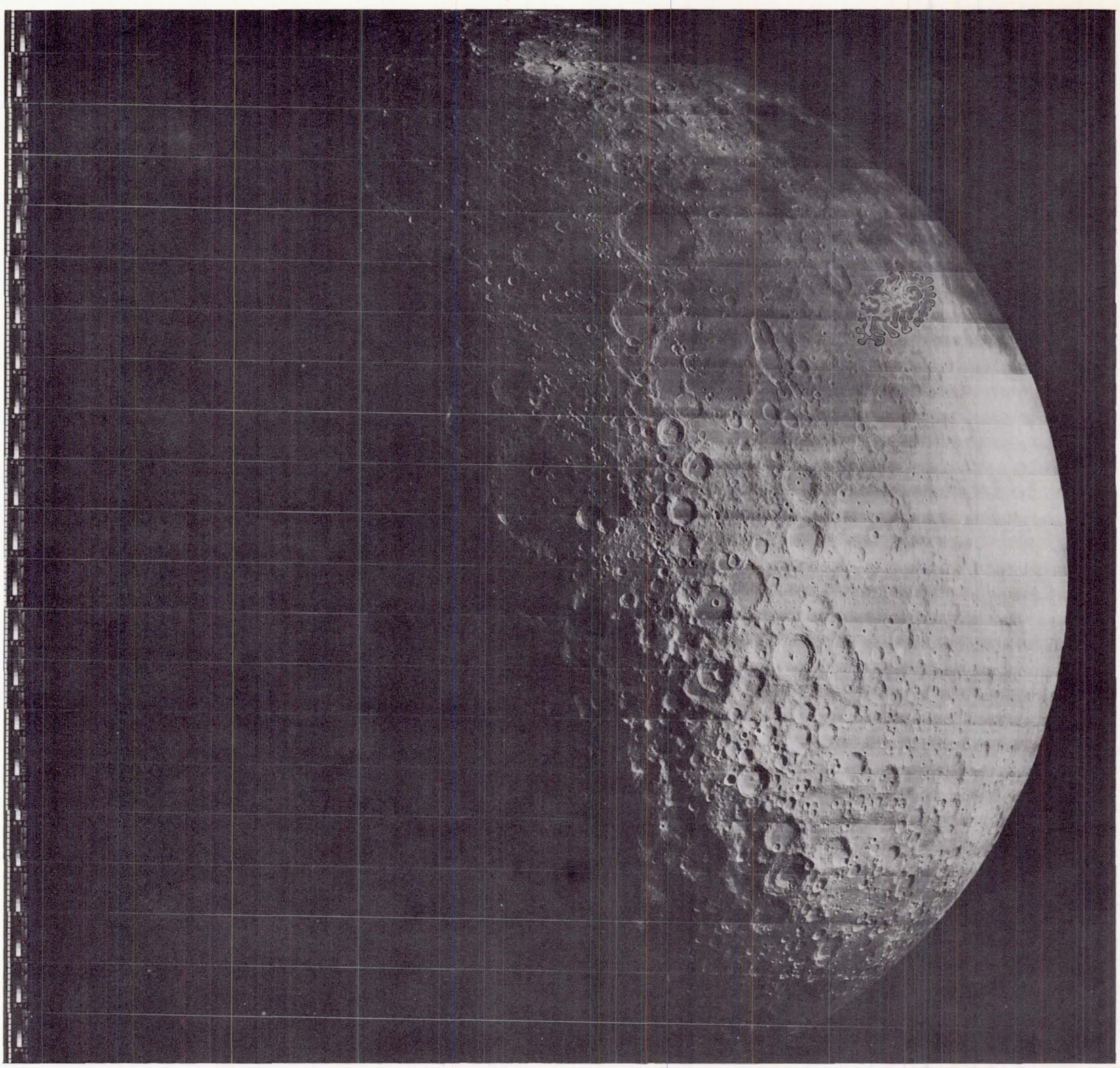
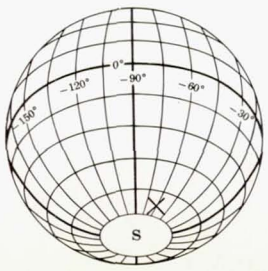



PLATE 464

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BAILLY ..... F5
CLAVIUS ..... J6
SCHICKARD .... G3
SCHILLER ..... H4

1 CENTIMETER ≈ 114 KILOMETERS

N

PHOTO NO. IV-166-M

CENTER COORDINATES ..... LONG.—60.23
LAT. —71.30
NORTH DEVIATION (DEG.) ..... 3.49
SUN ANGLE ..... 83.0
SPACECRAFT ALTITUDE (KM) ..... 3592.56

PLATE 465

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-166-H3

CENTER COORDINATES ..... LONG. —60.23
LAT. —71.31
NORTH DEVIATION (DEG.) ..... 3.49
SUN ANGLE ..... 83.0
SPACECRAFT ALTITUDE (KM) ..... 3592.60

N

1 CENTIMETER ≈15 KILOMETERS

BAILLY .... J15

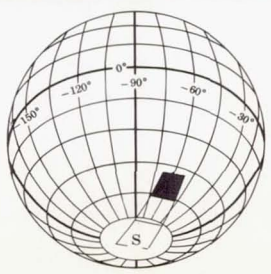
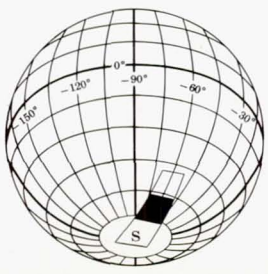



PLATE 466

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BAILLY ..... D4
LEGENTIL ... B10

1 CENTIMETER ≈ 15 KILOMETERS

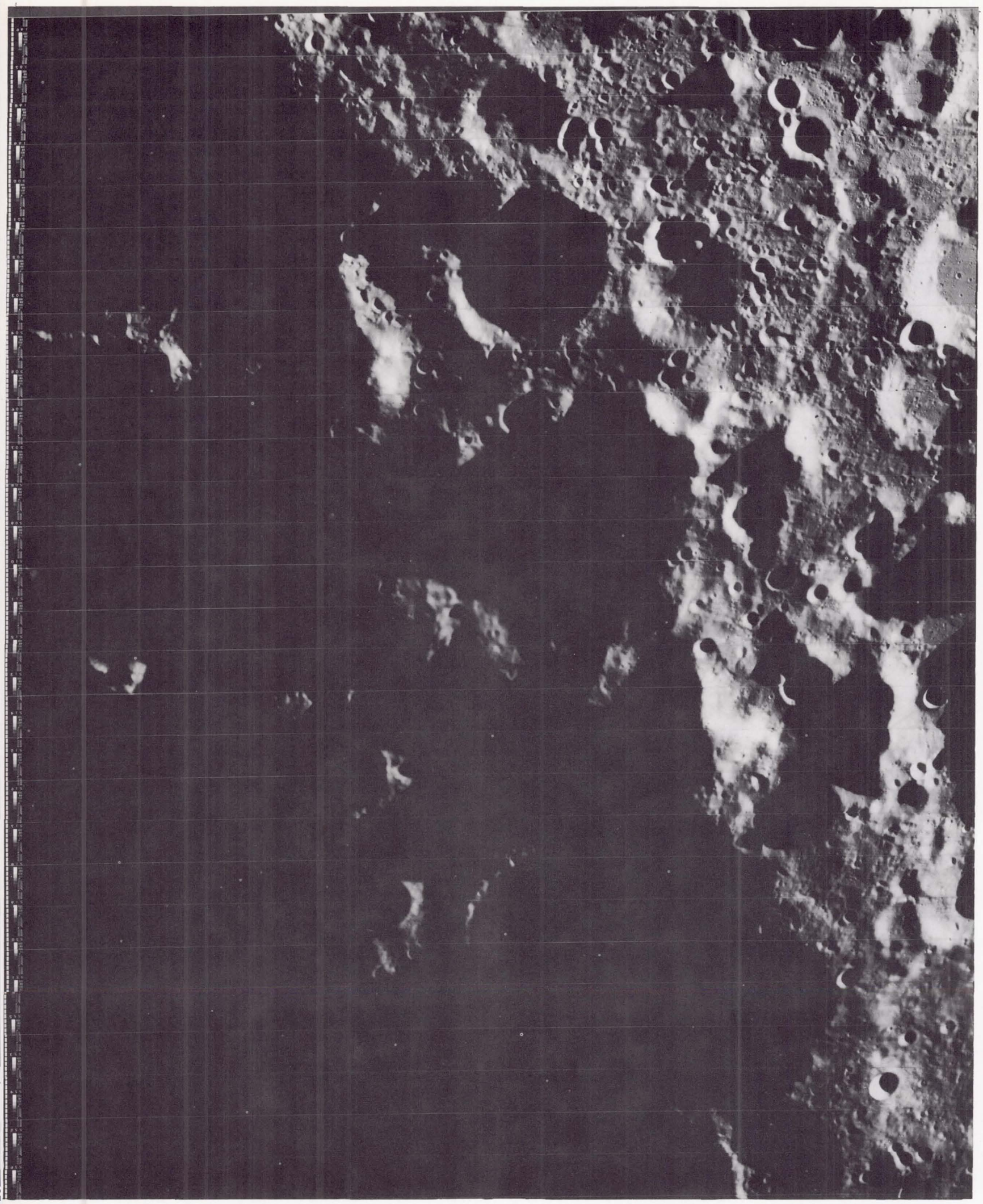
N

PHOTO NO. IV-166-H2

CENTER COORDINATES ..... LONG. —60.23
LAT. —71.31
NORTH DEVIATION (DEG.) ..... 3.49
SUN ANGLE ..... 83.0
SPACECRAFT ALTITUDE (KM) .... 3592.60

PLATE 467

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-166-H1

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | —60.23 |
| | LAT. | —71.31 |
| NORTH DEVIATION (DEG.) ..... | | 3.49 |
| SUN ANGLE ..... | | 83.0 |
| SPACECRAFT ALTITUDE (KM) ..... | | 3592.60 |

N

1 CENTIMETER ≈ 15 KILOMETERS

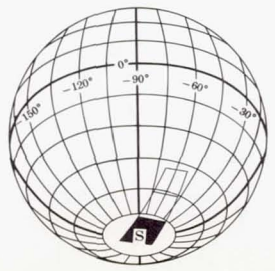
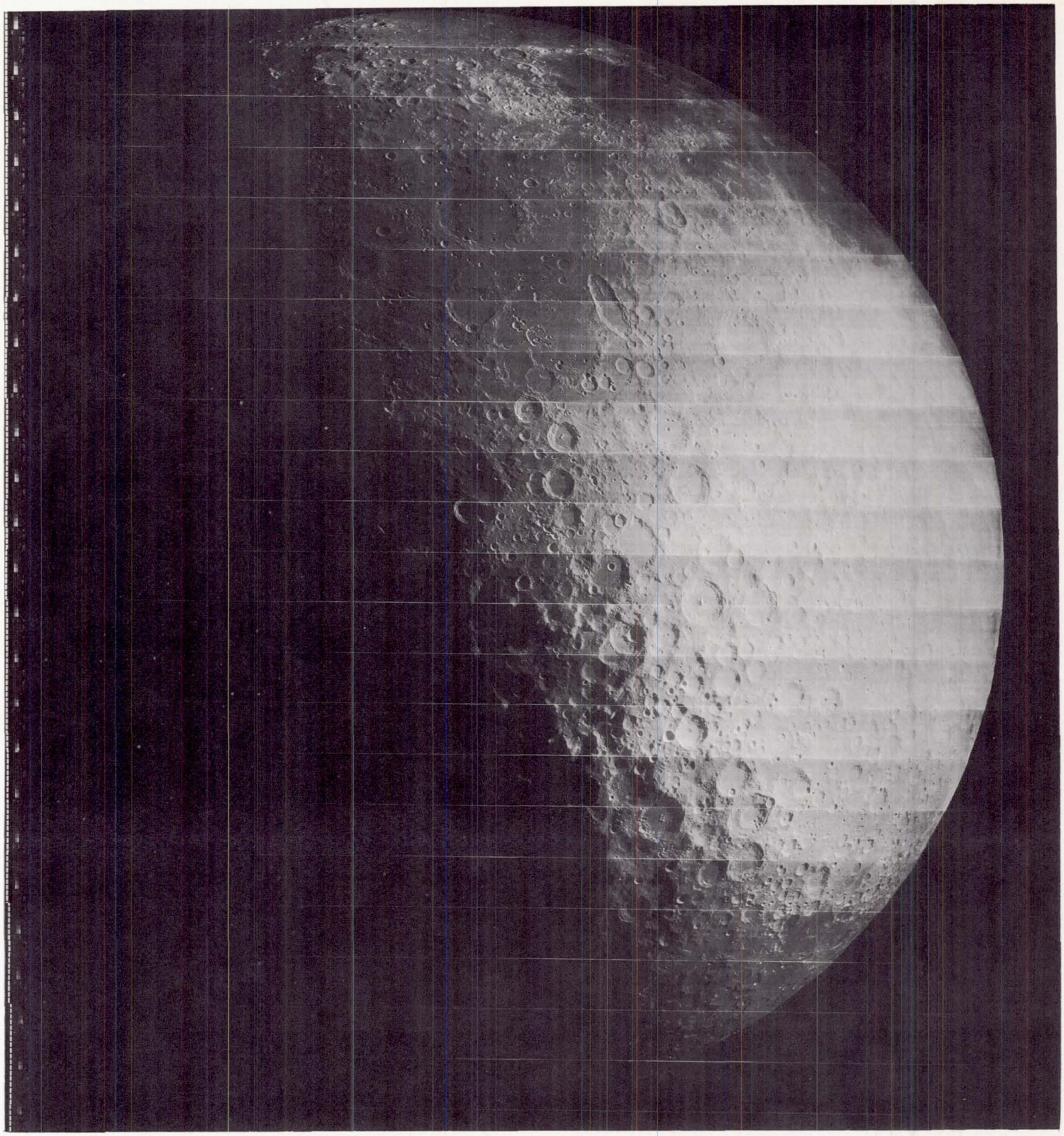
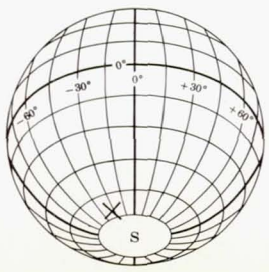



PLATE 468

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMORUM .... G1
MARE NUBIUM ..... J3

1 CENTIMETER ≈ 115 KILOMETERS

N

PHOTO NO. IV-154-M

CENTER COORDINATES ..... LONG. —33.52
LAT. —71.70
NORTH DEVIATION (DEG.) ..... 15.99
SUN ANGLE ..... 79.2
SPACECRAFT ALTITUDE (KM) ..... 3613.38

PLATE 469

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

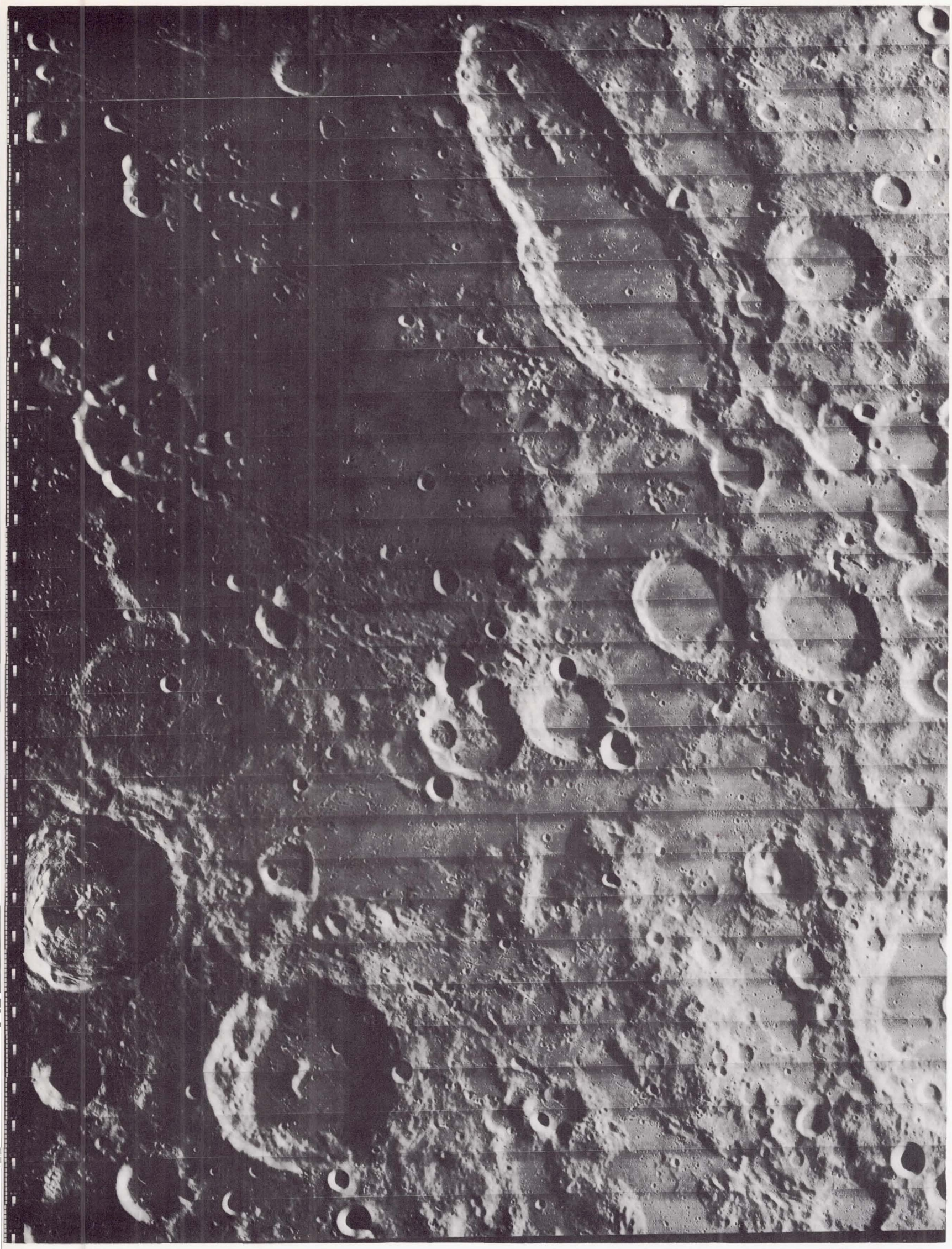


PHOTO NO. IV-154-H3

ENTER COORDINATES ..... LONG. —33.51
LAT. —71.70
ORTH DEVIATION (DEG.) ..... 16.00
UN ANGLE ..... 79.2
PACECRAFT ALTITUDE (KM) ..... 3613.43

N

1 CENTIMETER ≈15 KILOMETERS

BAYER ..... B4
BETTINUS ..... J14
NÖGGERATH .... J2
ROST ..... B8
SCHILLER ..... F3
SEGNER ..... K9
WEIGEL ..... E10
ZUCCHIUS ..... L12

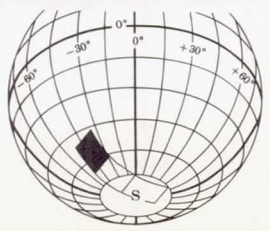
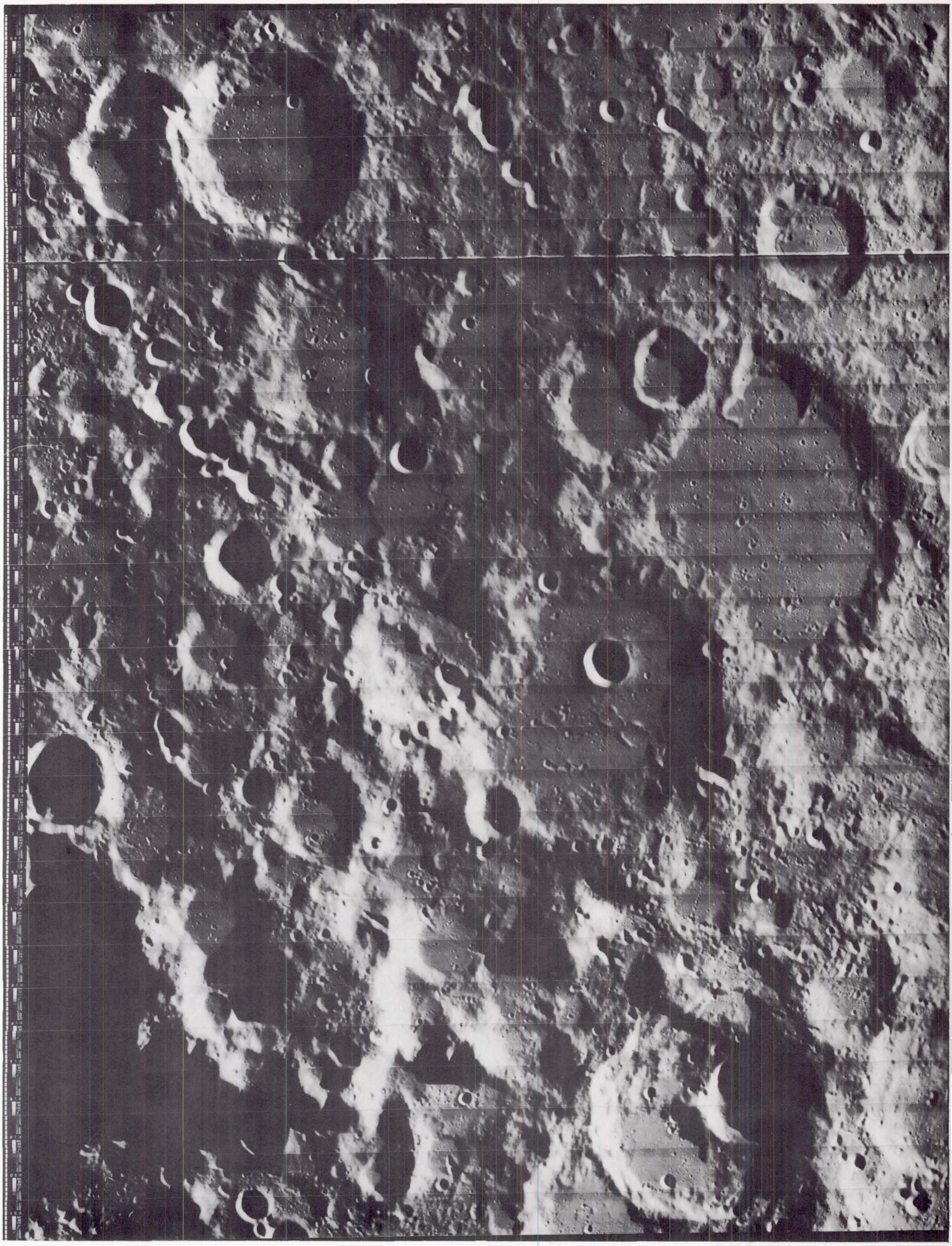
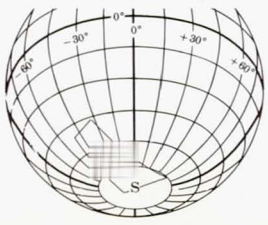



PLATE 470

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CASATUS .... H9
KIRCHER .... D2
NEWTON .... J15
WILSON ..... E5

1 CENTIMETER ≈ 15 KILOMETERS

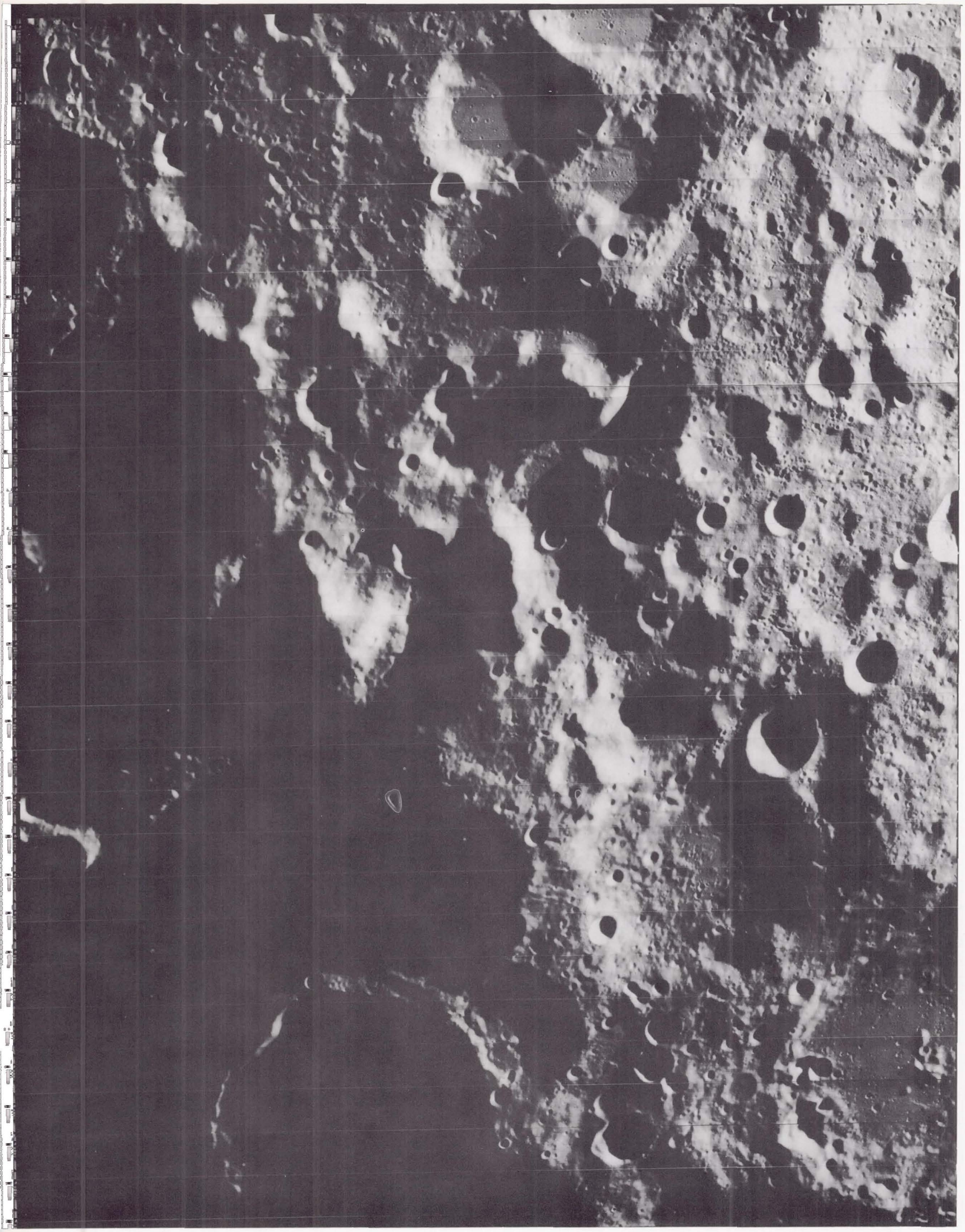
N

PHOTO NO. IV-154-H2

CENTER COORDINATES ..... LONG. −33.51
LAT. −71.70
NORTH DEVIATION (DEG.) ..... 16.00
SUN ANGLE ..... 79.5
SPACECRAFT ALTITUDE (KM) ..... 3613.43

PLATE 471

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-154-H1

ENTER COORDINATES ..... LONG.–33.51
LAT. –71.70
ORTH DEVIATION (DEG.) ..... 16.00
UN ANGLE ..... 79.2
PACECRAFT ALTITUDE (KM) ..... 3613.43

N

1 CENTIMETER ≈15 KILOMETERS

AMUNDSEN ..... H14

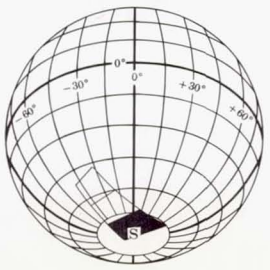
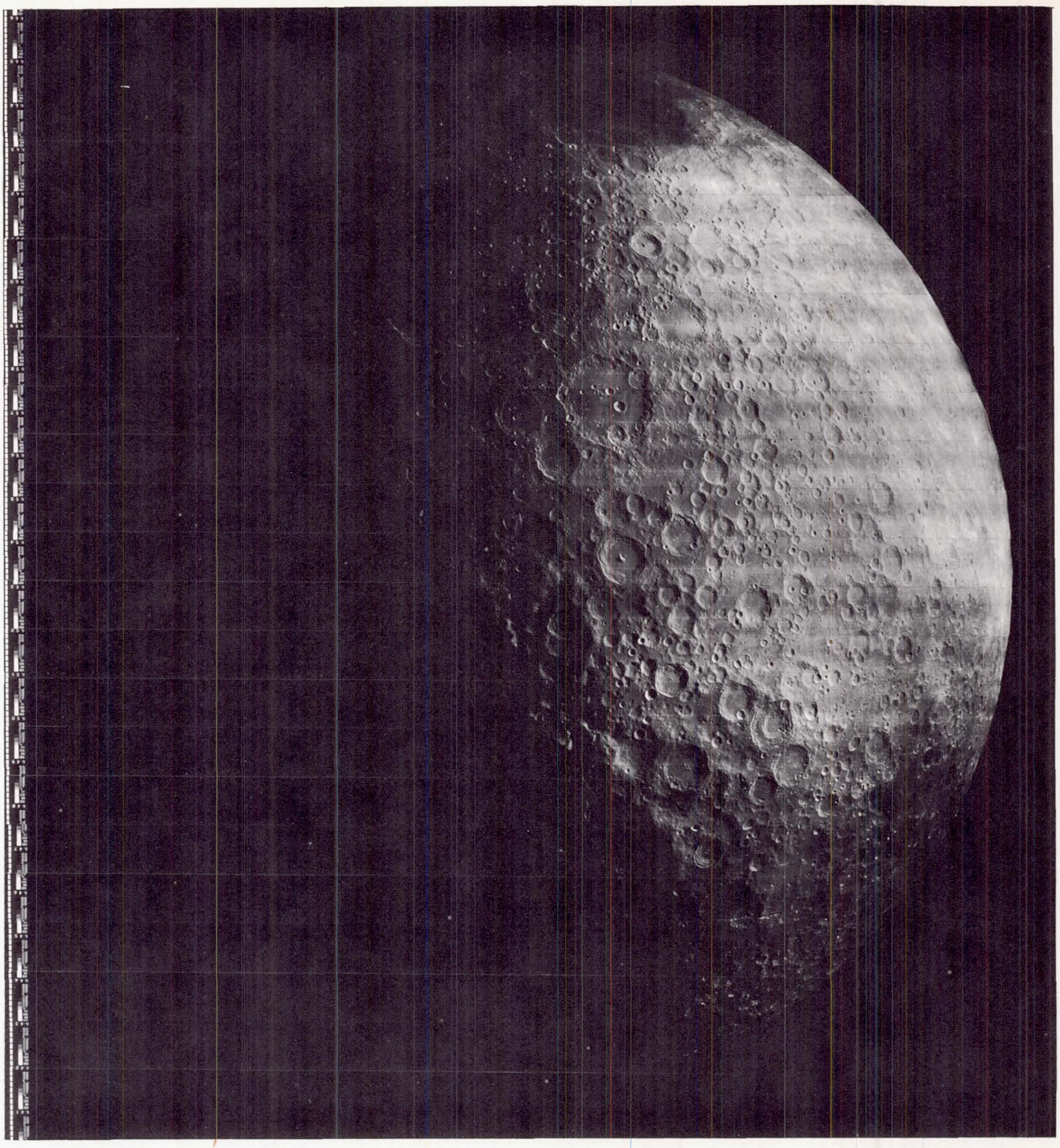
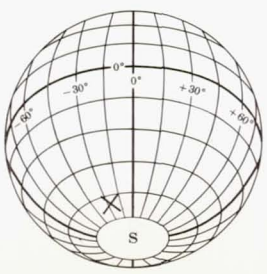



PLATE 472

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CLAVIUS .....G5
MAGINUS .....H4
MARE NUBIUM ....G2
MORETUS .....G7

1 CENTIMETER ≈ 113 KILOMETERS

N

PHOTO NO. IV-130-M

CENTER COORDINATES ..... LONG. —25.85
LAT. —65.02
NORTH DEVIATION (DEG.) ..... 357.56
SUN ANGLE ..... 81.3
SPACECRAFT ALTITUDE (KM) ..... 3574.79

PLATE 473

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

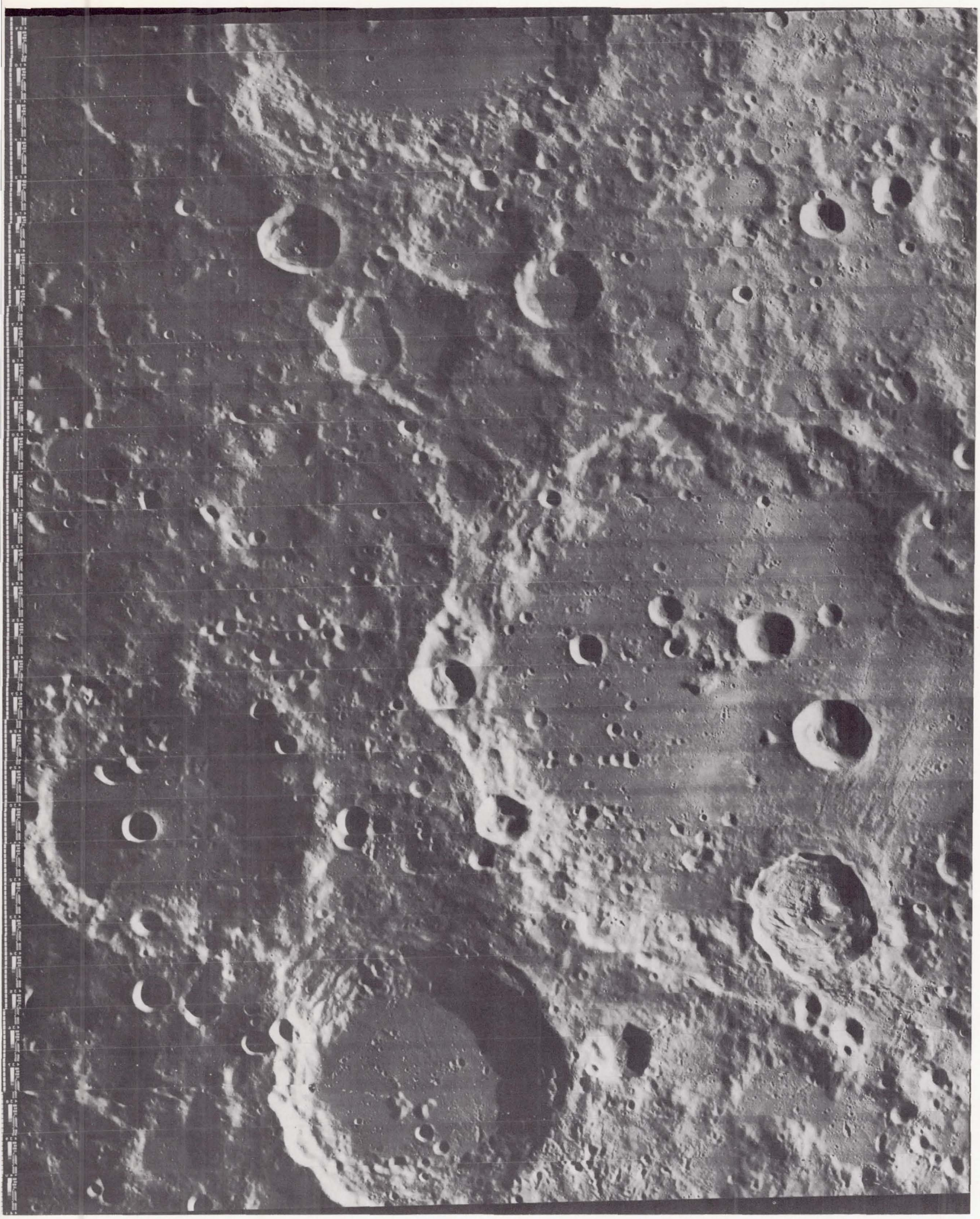


PHOTO NO. IV-130-H3

CENTER COORDINATES ..... LONG.—25.85
LAT. —65.02
NORTH DEVIATION (DEG.) ..... 357.56
SUN ANGLE ..... 81.3
SPACECRAFT ALTITUDE (KM) ..... 3574.83

N

1 CENTIMETER ≈15 KILOMETERS

BLANCANUS ..... G14
CLAVIUS ..... D9
RUTHERFURD .... B12
SCHEINER ..... K11

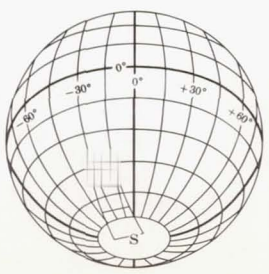
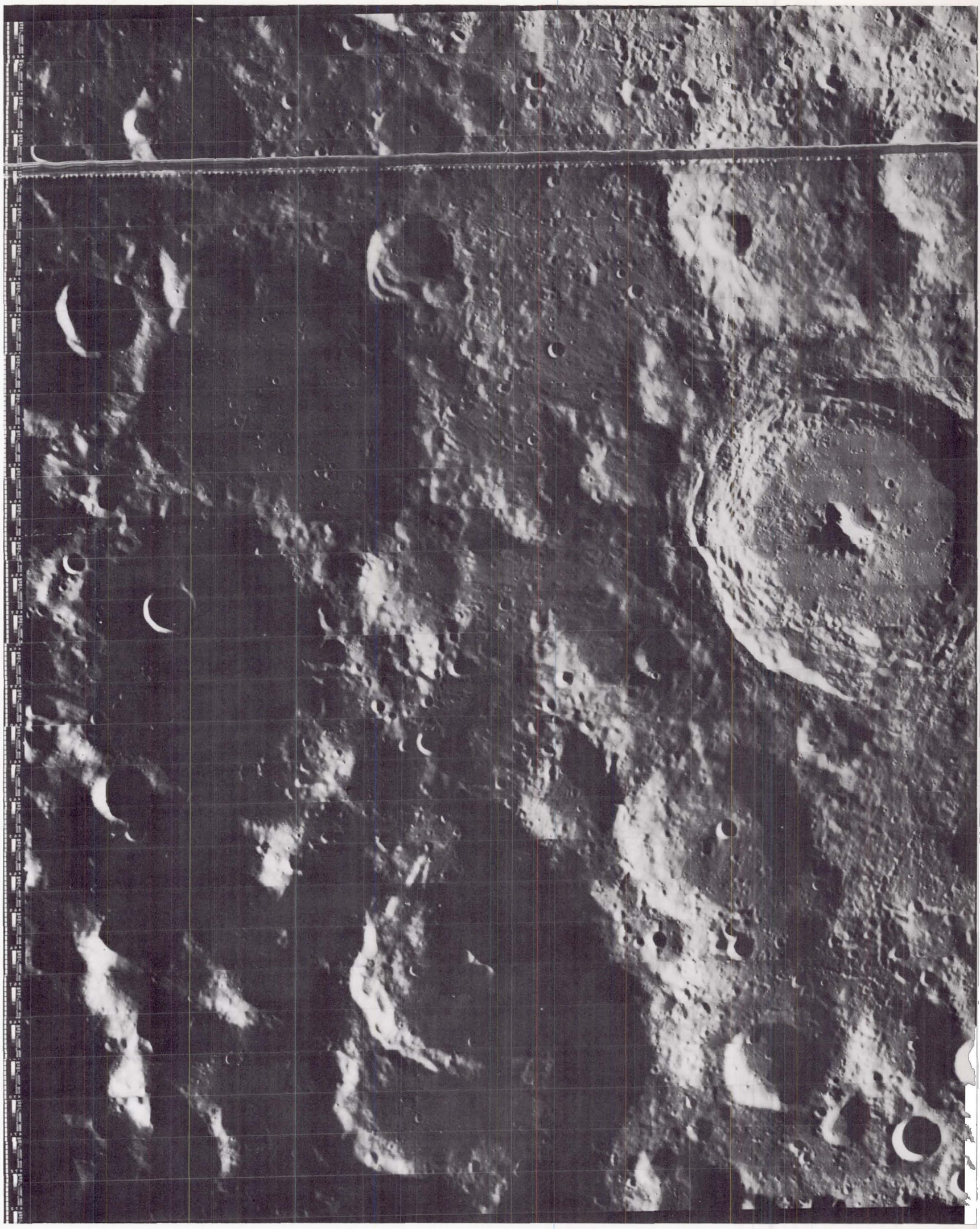
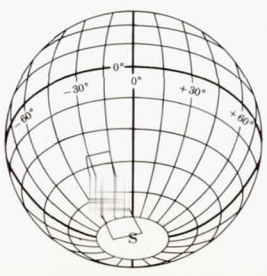



PLATE 474






CASATUS ..... C9
KLAPROTH .... D5
MORETUS ..... L7
NEWTON ..... G12
SHORT ..... J11

1 CENTIMETER ≈ 15 KILOMETERS

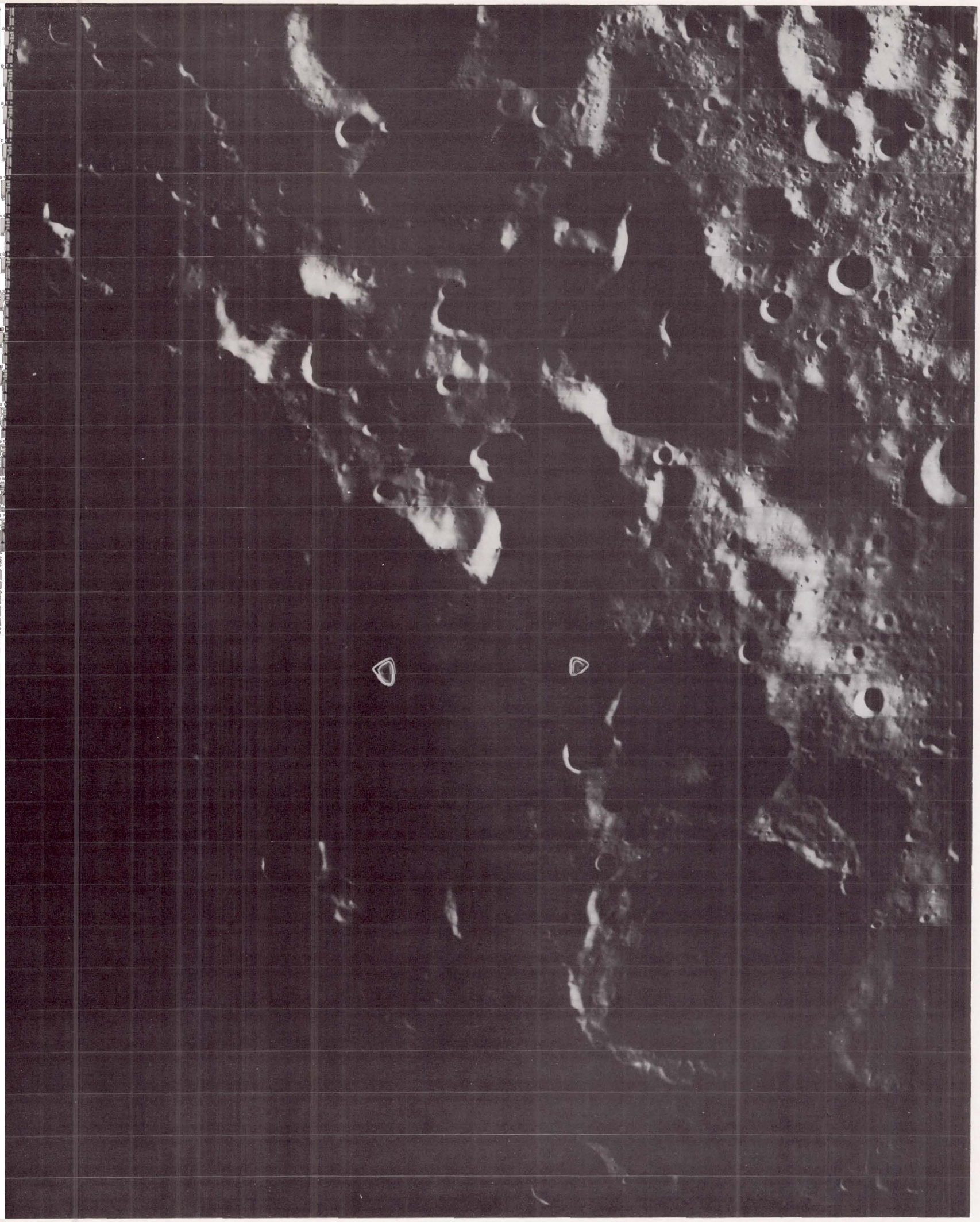
N

PHOTO NO. LV-130-H2

CENTER COORDINATES ..... LONG. —25.85
LAT. —65.02
NORTH DEVIATION (DEG.) ..... 357.56
SUN ANGLE ..... 81.3
SPACECRAFT ALTITUDE (KM) ..... 3574.83

PLATE 475

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-130-H1

CENTER COORDINATES ..... LONG. —25.85
LAT. —65.02
NORTH DEVIATION (DEG.) ..... 357.56
SUN ANGLE ..... 81.3
SPACECRAFT ALTITUDE (KM) ..... 3574.83

N

1 CENTIMETER ≈ 15 KILOMETERS

AMUNDSEN ..... C12

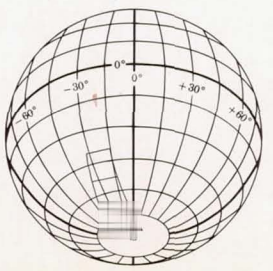
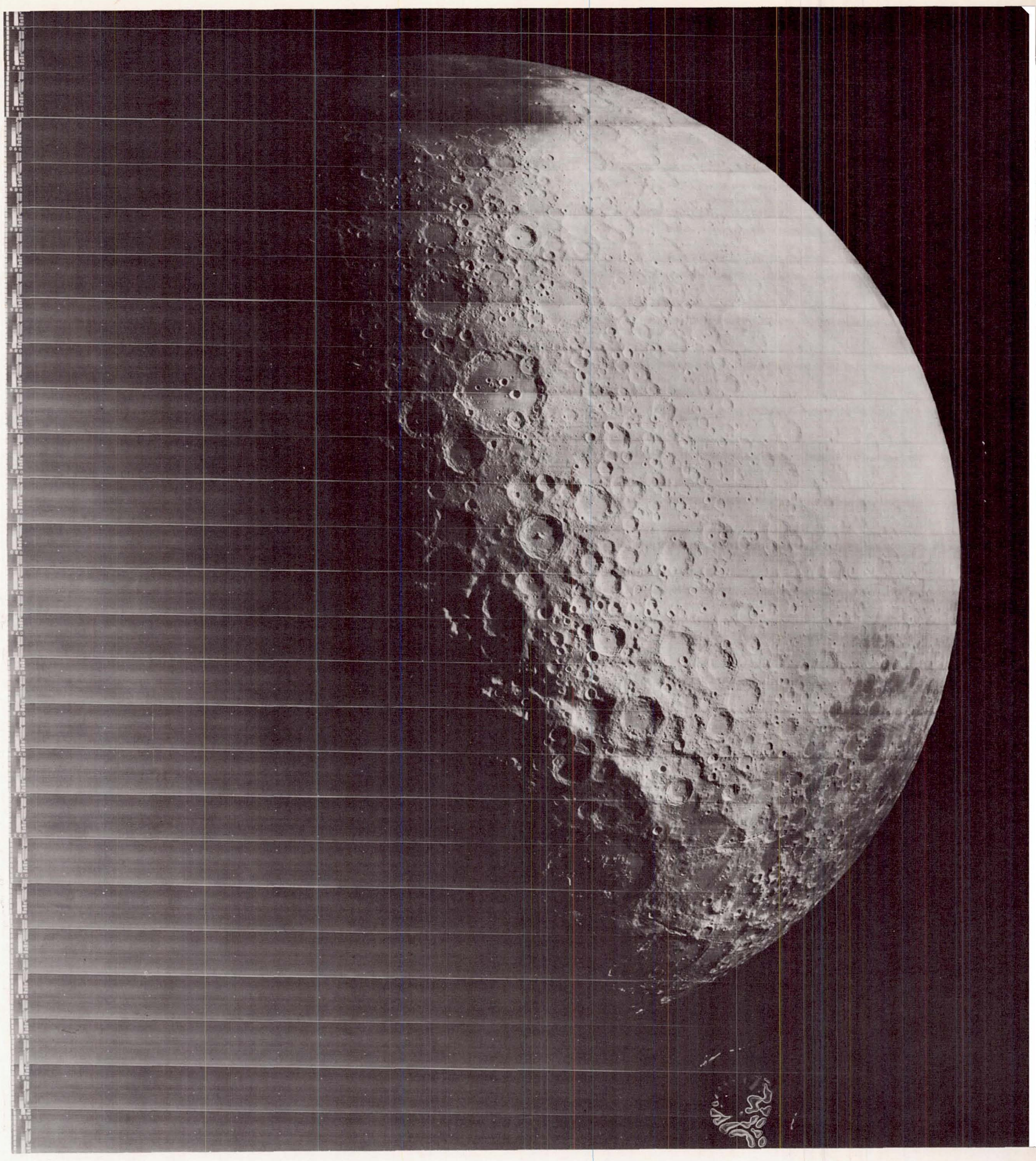
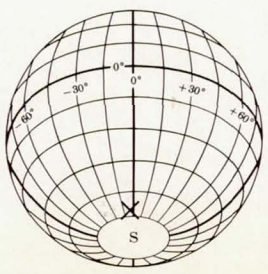



PLATE 476

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CLAVIUS ..... F5
MARE NUBIUM .... F1
MORETUS ..... G6

1 CENTIMETER ≈ 112 KILOMETERS

N

PHOTO NO. IV-118-M

CENTER COORDINATES ..... LONG.—6.9
LAT.—72.4
NORTH DEVIATION (DEG.) ..... 6.4
SUN ANGLE ..... 82.
SPACECRAFT ALTITUDE (KM) ..... 3554.9

PLATE 477

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-118-H3

CENTER COORDINATES ..... LONG. —6.99
LAT. —72.49
NORTH DEVIATION (DEG.) ..... 6.47
SUN ANGLE ..... 82.2
SPACECRAFT ALTITUDE (KM) ..... 3554.96

N

1 CENTIMETER ≈ 15 KILOMETERS

BLANCANUS ..... M13
CLAVIUS ..... J8
DELUC ..... B5
RUTHERFURD .... H10

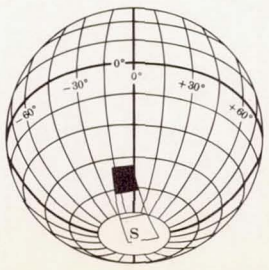
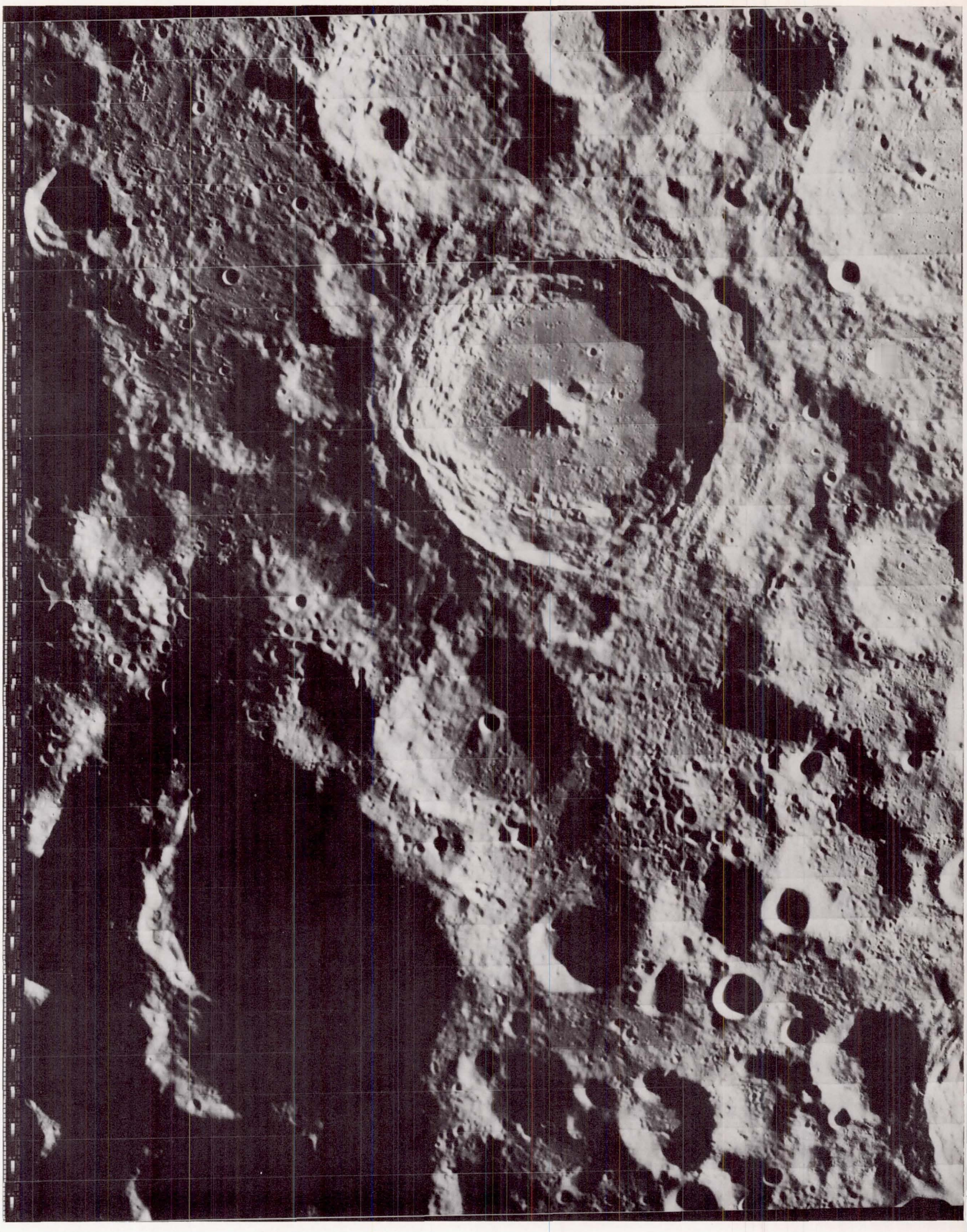
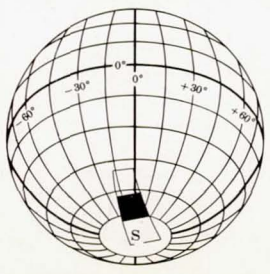



PLATE 478

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CURTIUS ..... M3
CYSATUS ..... H1
GRUEMBERGER .... F2
KLAPROTH ..... A5
MORETUS ..... G6
NEWTON ..... D13
SHORT ..... F10

1 CENTIMETER ≈ 15 KILOMETERS

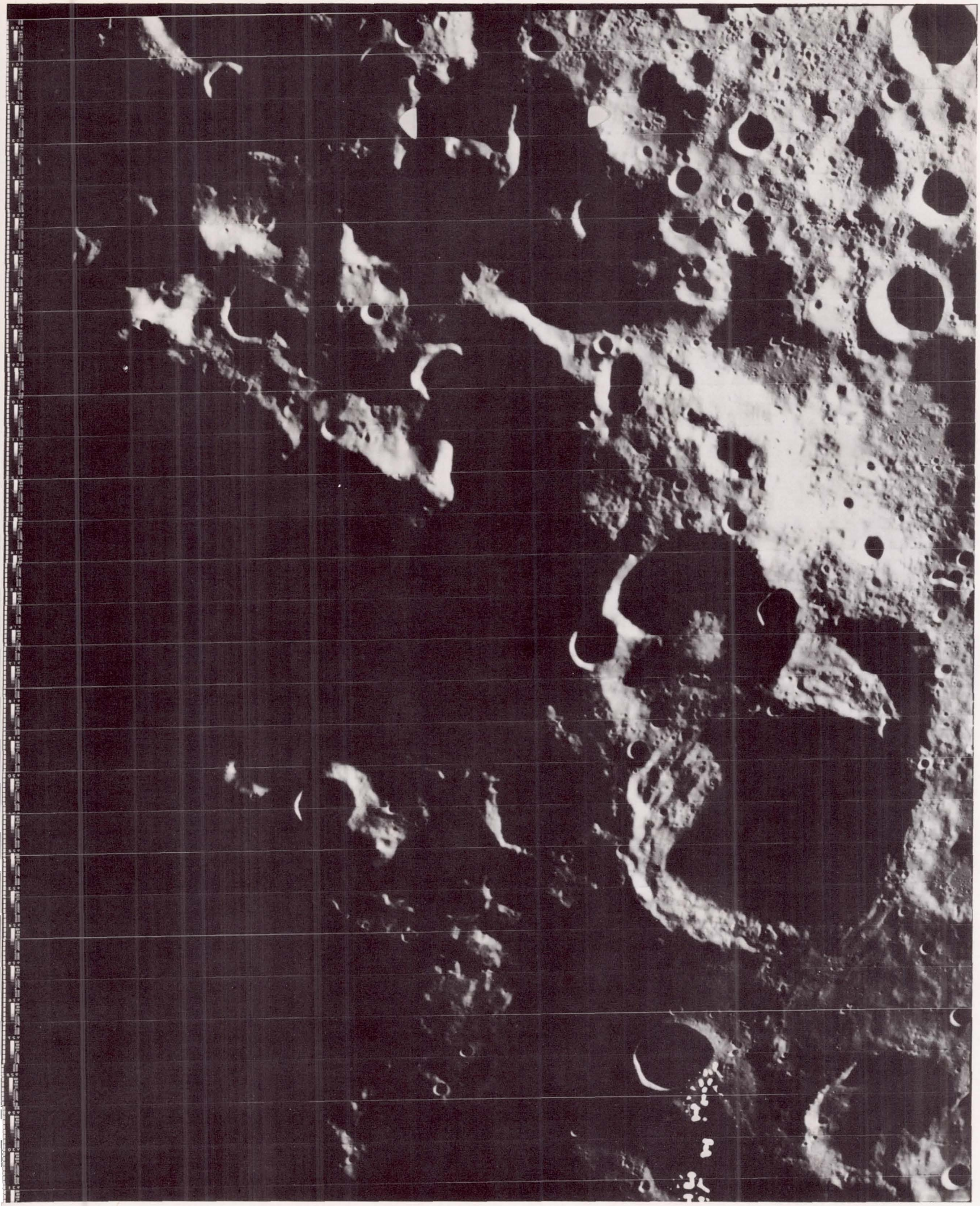
N

PHOTO NO IV-118-H2

CENTER COORDINATES ..... LONG. —6.99
LAT. —72.49
NORTH DEVIATION (DEG.) ..... 6.47
SUN ANGLE ..... 82.2
SPACECRAFT ALTITUDE (KM) ..... 3554.96

PLATE 479

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-118-H1

CENTER COORDINATES ..... LONG. —6.99
LAT. —72.49
NORTH DEVIATION (DEG.) ..... 6.47
SUN ANGLE ..... 82.2
SPACECRAFT ALTITUDE (KM) ..... 3554.96

N

1 CENTIMETER ≈ 15 KILOMETERS

AMUNDSEN ..... C11

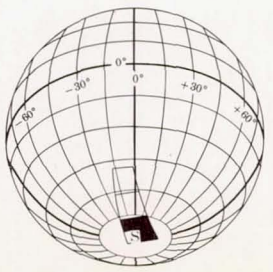
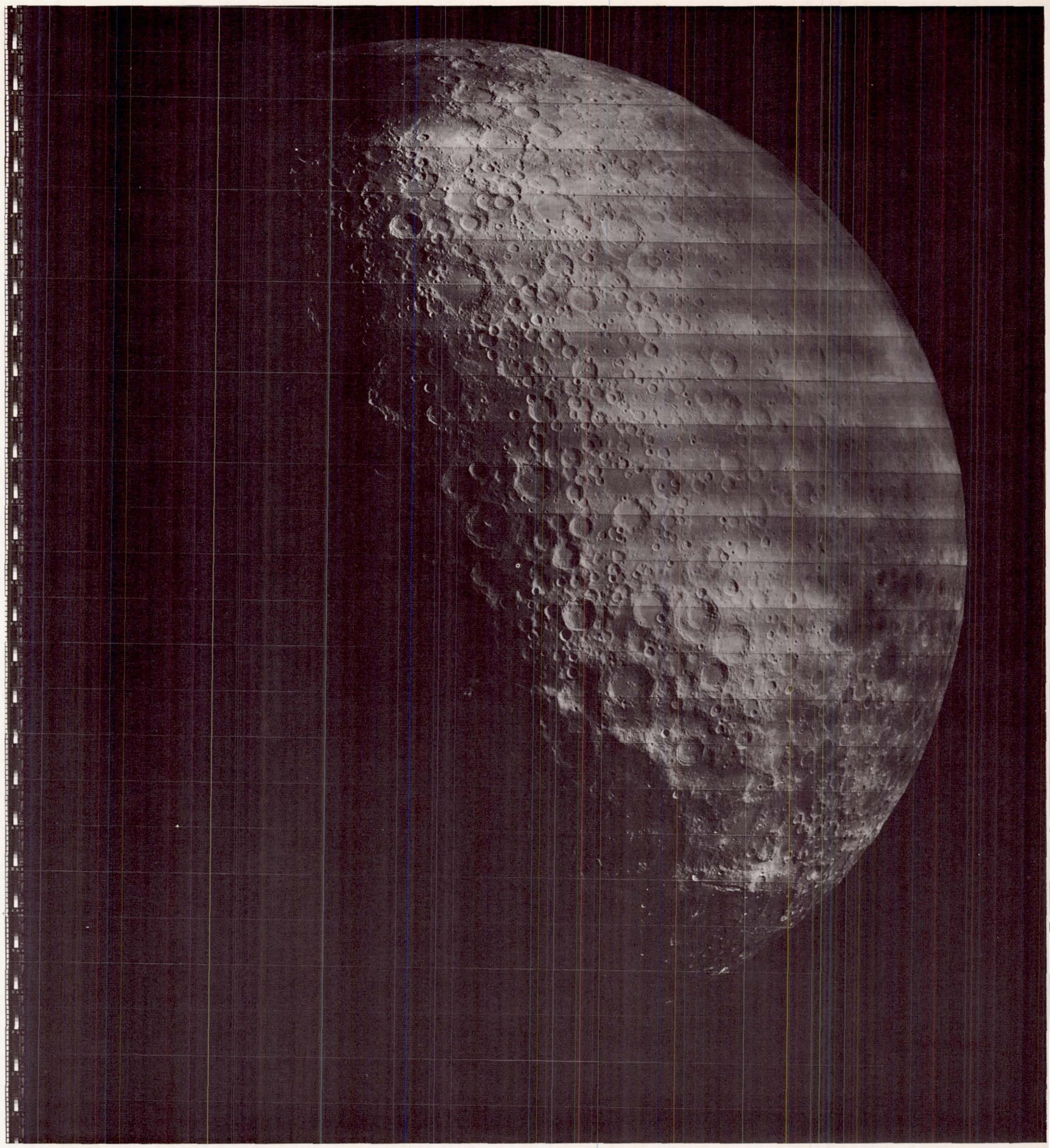
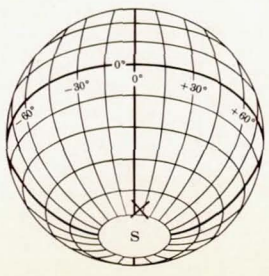



PLATE 480

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






CLAVIUS ..... E5
MAGINUS ..... F4
MORETUS .... F6

1 CENTIMETER ≈ 112 KILOMETERS

N

PHOTO NO. IV-106-M

CENTER COORDINATES ..... LONG. 9.45
LAT. −72.16
NORTH DEVIATION (DEG.) ..... 9.12
SUN ANGLE ..... 80.9
SPACECRAFT ALTITUDE (KM) ..... 3534.47

PLATE 481

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

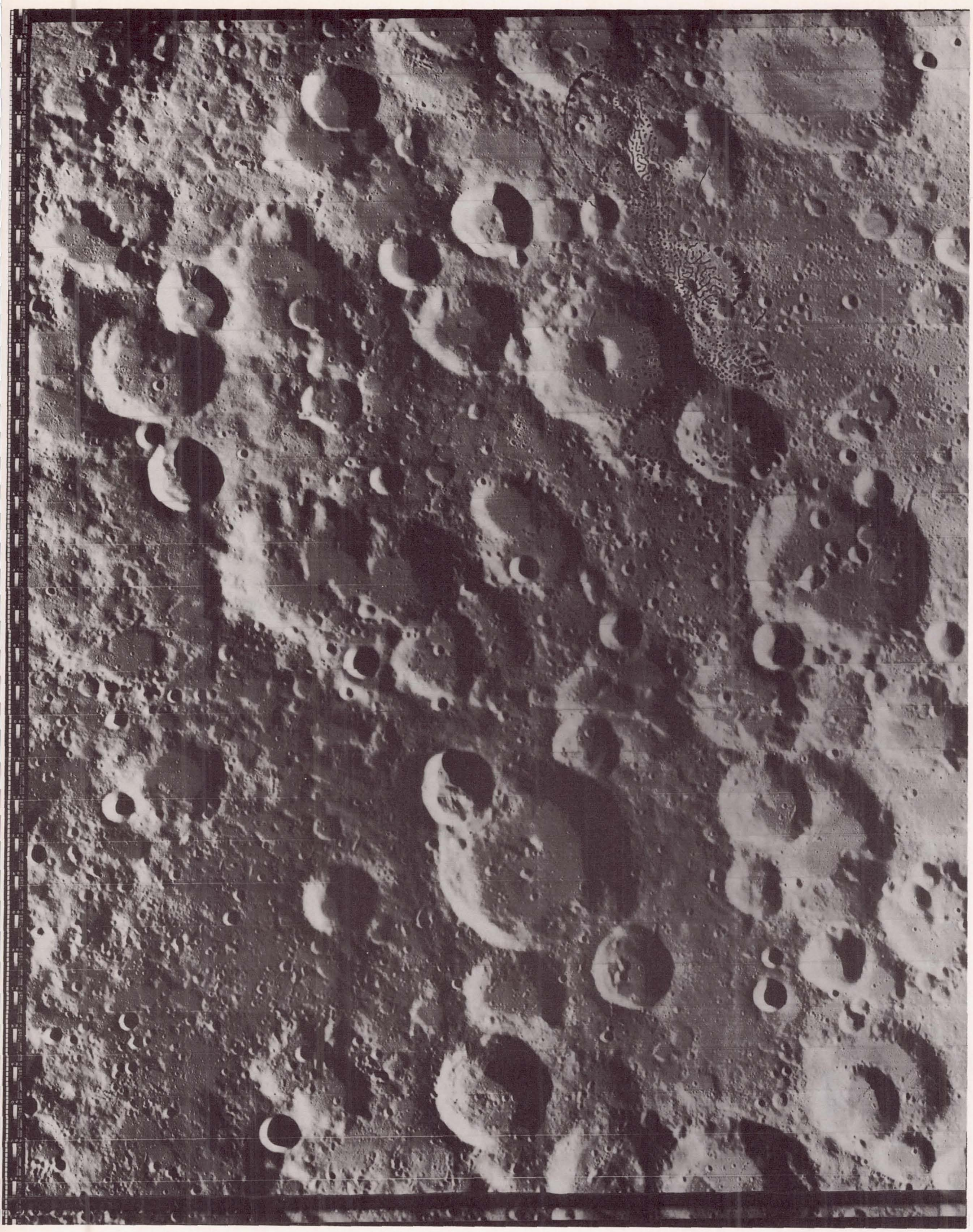


PHOTO NO. IV-106-H3

CENTER COORDINATES ..... LONG. 9.45
LAT. —72.16
NORTH DEVIATION (DEG.) ..... 9.12
SUN ANGLE ..... 80.9
SPACECRAFT ALTITUDE (KM) .... 3534.50

N

1 CENTIMETER ≈ 15 KILOMETERS

CUVIER ....B1
JACOBI ..... B7
LILIUS ..... E5
ZACH ..... F11

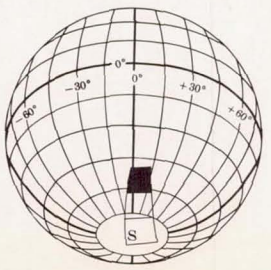
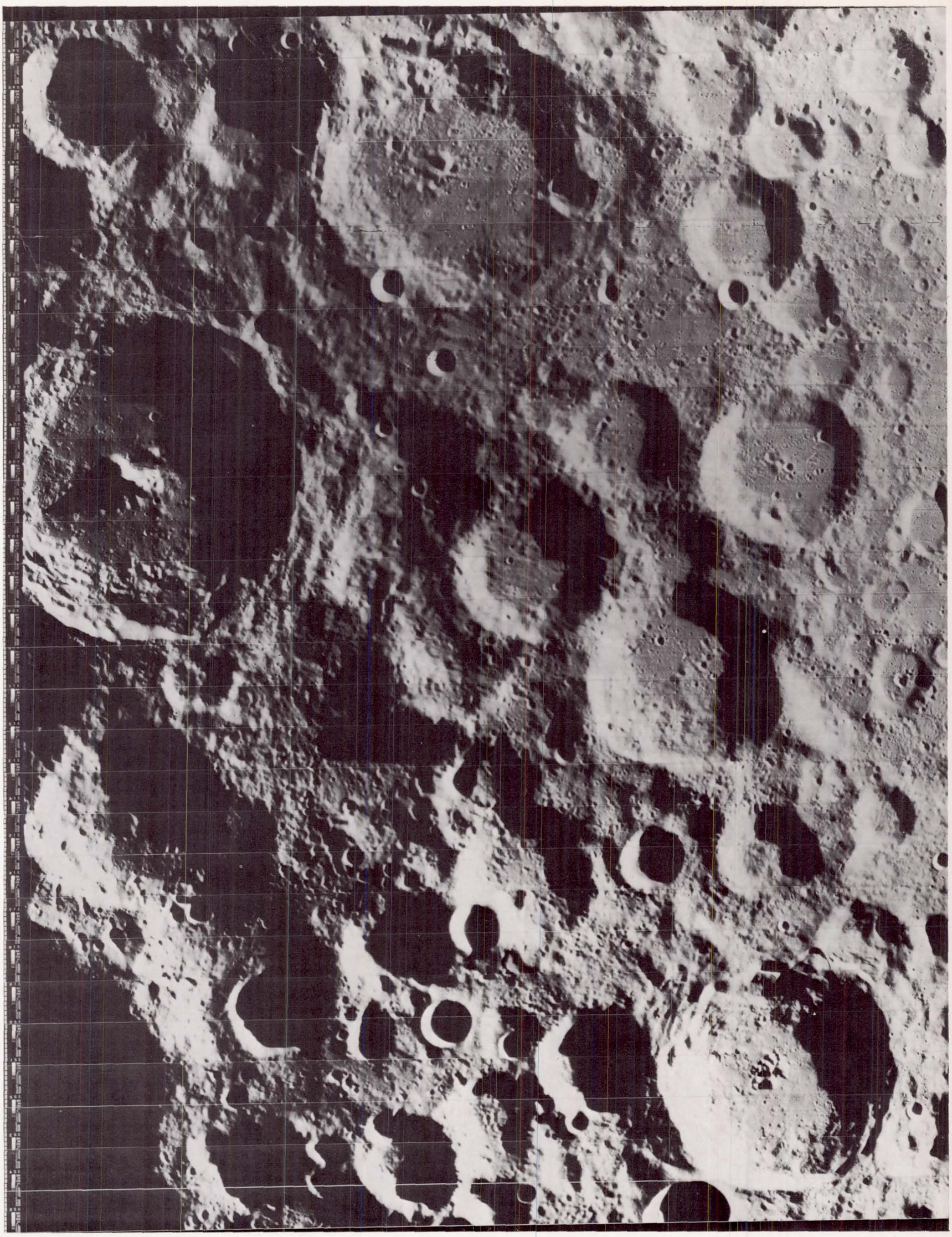
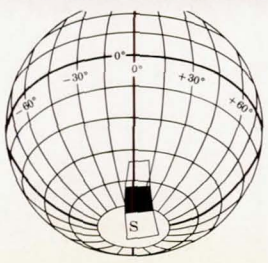



PLATE 482




CURTIUS ..... F3
MORETUS ..... B7
*SCHOMBERGER* .. K14
SIMPELIUS ..... J9

1 CENTIMETER ≈ 15 KILOMETERS

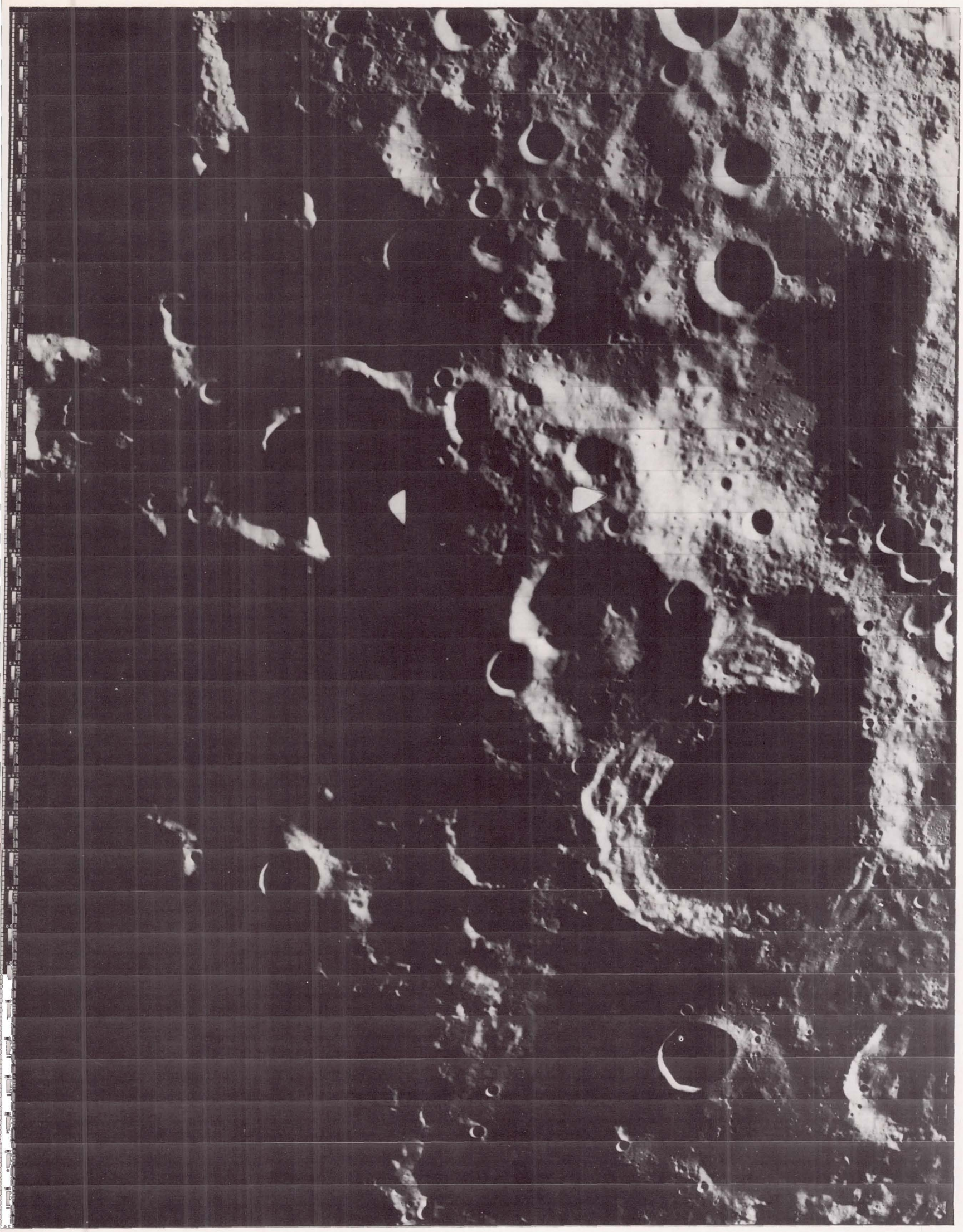
N

PHOTO NO. IV-106-H2

CENTER COORDINATES ..... LONG. 9.45
LAT. −72.16
NORTH DEVIATION (DEG.) ..... 9.12
SUN ANGLE ..... 80.9
SPACECRAFT ALTITUDE (KM) ..... 3534.50

PLATE 483

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-106-H1

CENTER COORDINATES ..... LONG. 9.45
LAT. —72.16
NORTH DEVIATION (DEG.) ..... 9.12
SUN ANGLE ..... 80.9
SPACECRAFT ALTITUDE (KM) ..... 3534.50

N

1 CENTIMETER ≈ 15 KILOMETERS

AMUNDSEN ....C11
SCOTT .....B5

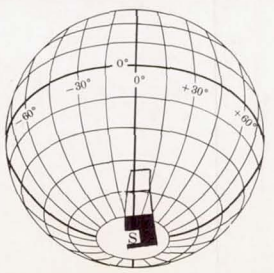
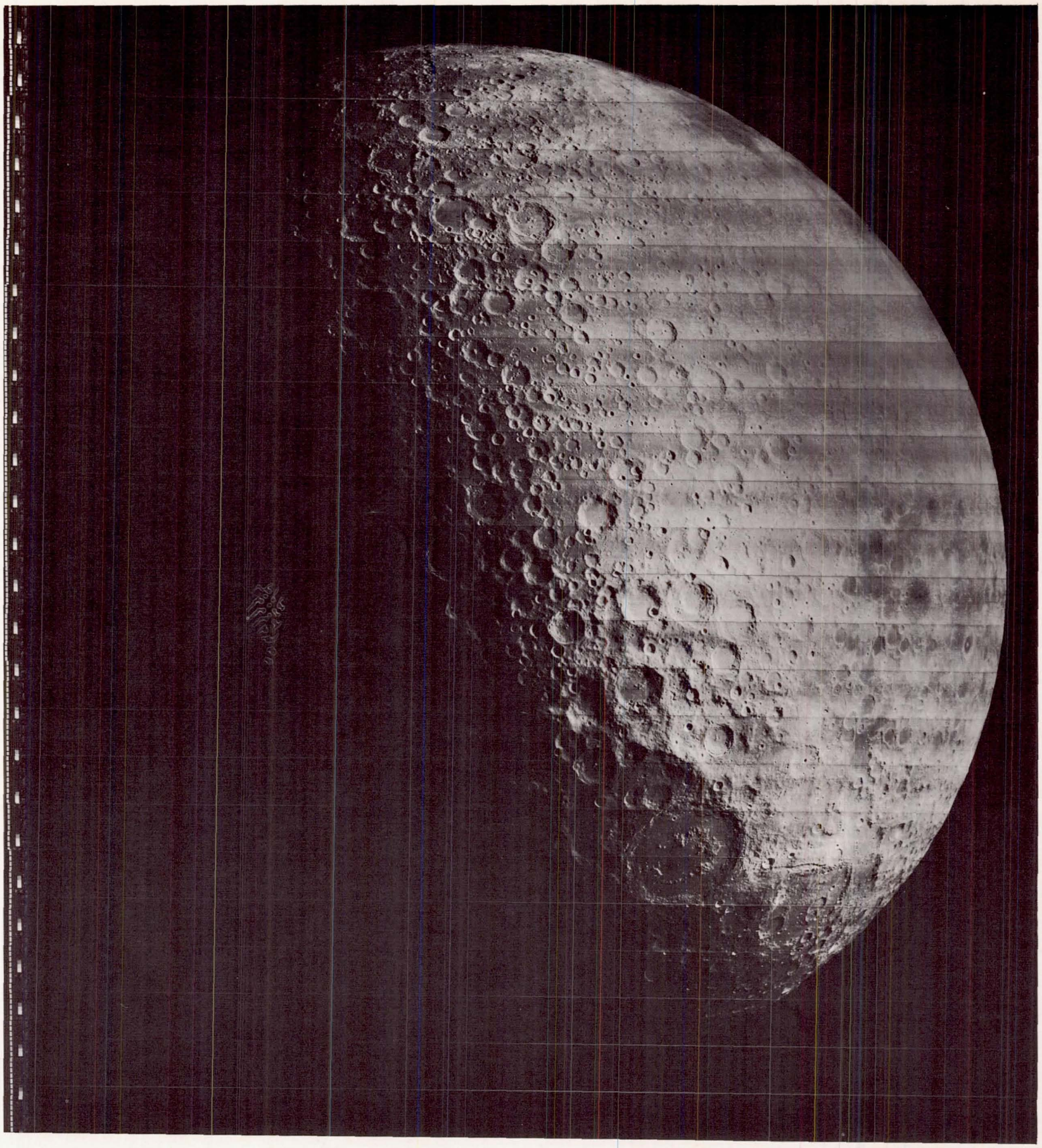
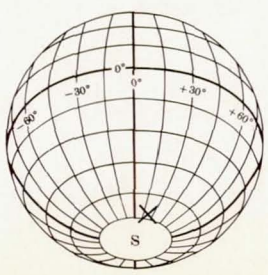



PLATE 484

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






AMUNDSEN ..... G9
BOUSSINGAULT .. H7
HALE ..... H9
MANZINUS ..... G6

1 CENTIMETER ≈ 112 KILOMETERS

N

PHOTO NO. IV-94-M

CENTER COORDINATES ..... LONG. 20.19
LAT. —72.11
NORTH DEVIATION (DEG.) ..... 6.78
SUN ANGLE ..... 81.2
SPACECRAFT ALTITUDE (KM) ..... 3516.88

PLATE 485

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

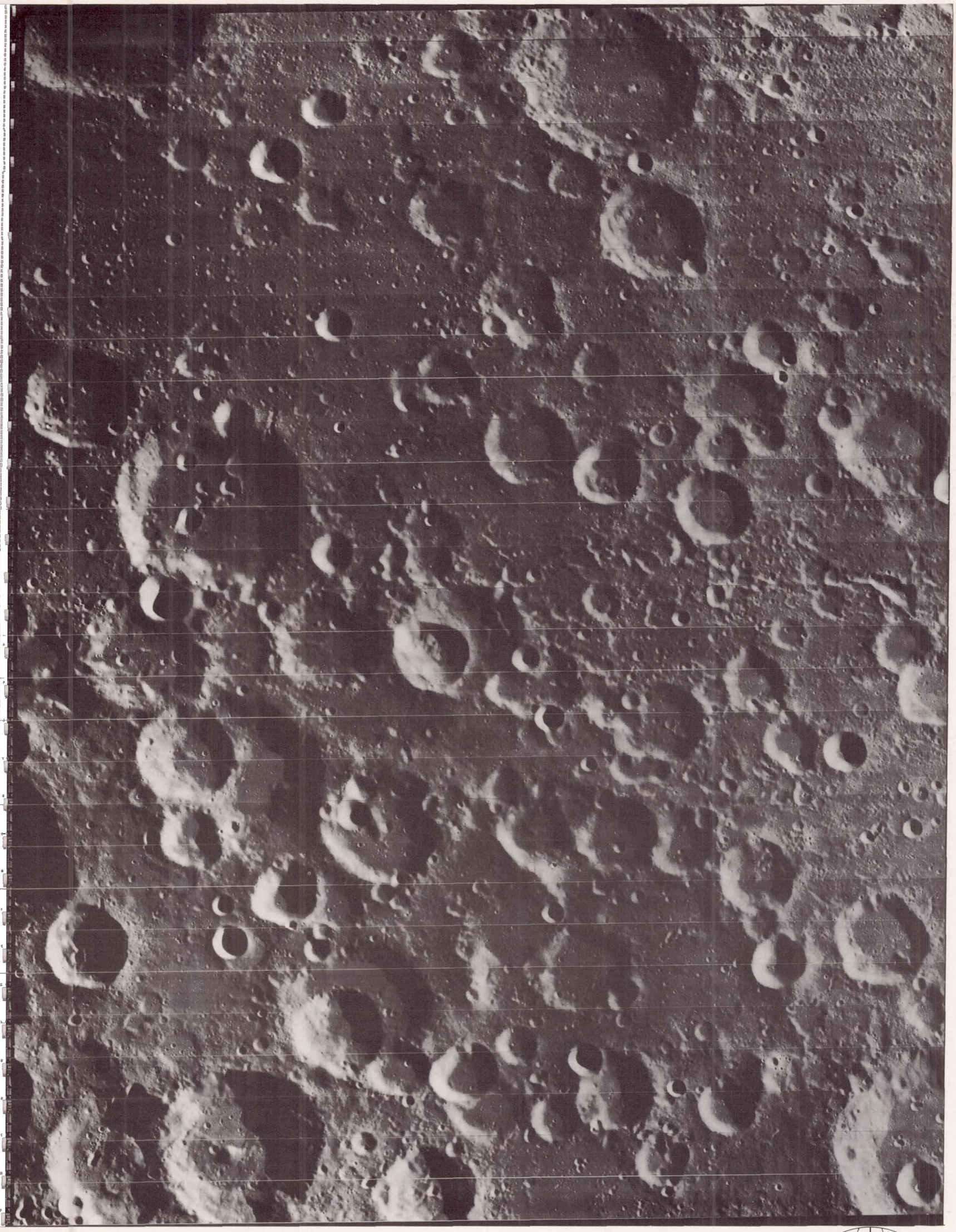


PHOTO NO. IV-94-H3

CENTER COORDINATES ..... LONG. 20.19
LAT. —72.11
NORTH DEVIATION (DEG.) ..... 6.79
SUN ANGLE ..... 81.2
SPACECRAFT ALTITUDE (KM) .... 3516.92

N

1 CENTIMETER ≈ 15 KILOMETERS

BACO .... E1
JACOBI ... K7
KINAU .. G11

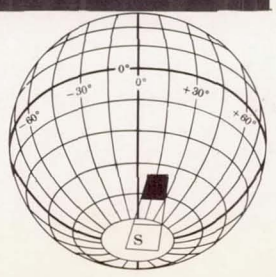
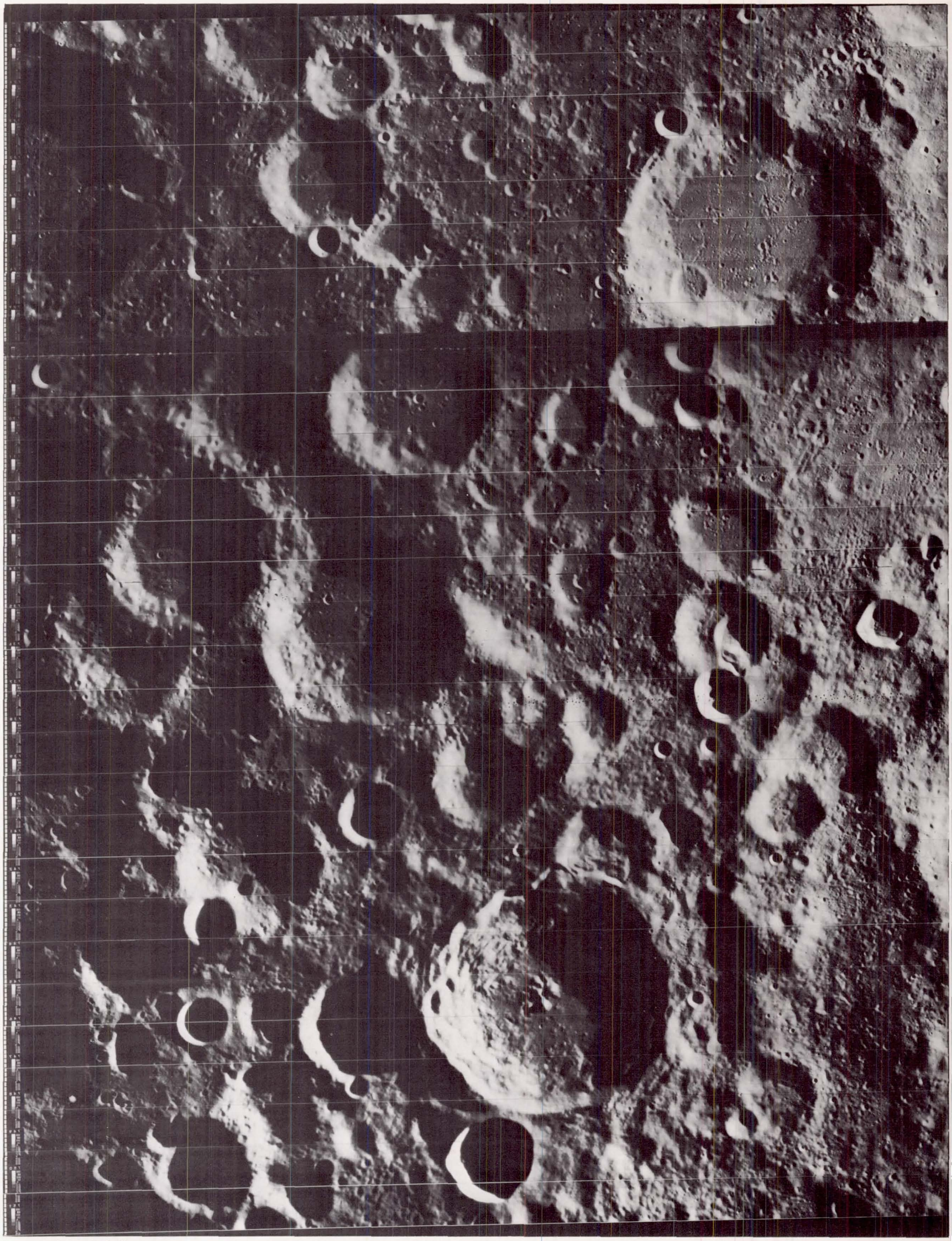
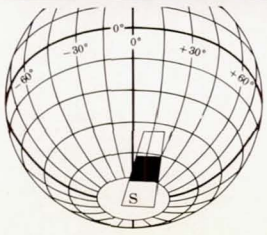



PLATE 486

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MANZINUS ..... K3
SCHOMBERGER ... G13
SIMPELIUS ..... E8

1 CENTIMETER ≈ 15 KILOMETERS

N

PHOTO NO. IV-94-H2

CENTER COORDINATES ..... LONG. 20.19
LAT. −72.11
NORTH DEVIATION (DEG.) ..... 6.79
SUN ANGLE ..... 81.2
SPACECRAFT ALTITUDE (KM) .....3516.92

PLATE 487

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

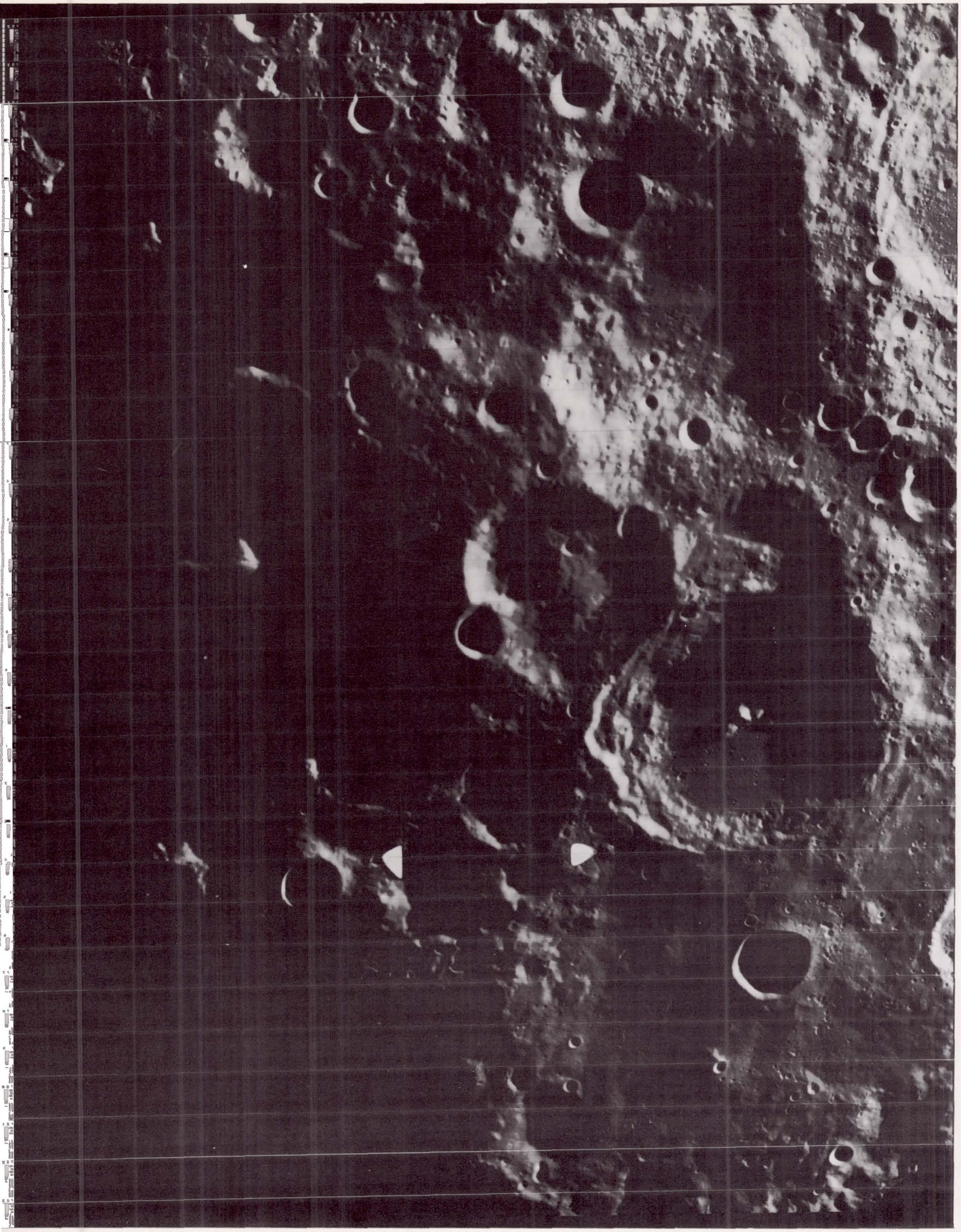


PHOTO NO. IV-94-H1

ENTER COORDINATES ..... LONG. 20.19
LAT.—72.11
ORTH DEVIATION (DEG.) ..... 6.79
IN ANGLE ..... 81.2
PACECRAFT ALTITUDE (KM) ..... 3516.92

N

1 CENTIMETER ≈15 KILOMETERS

AMUNDSEN.... C9

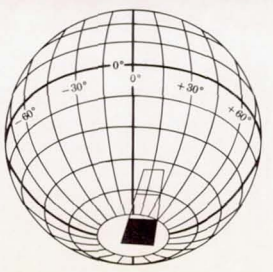
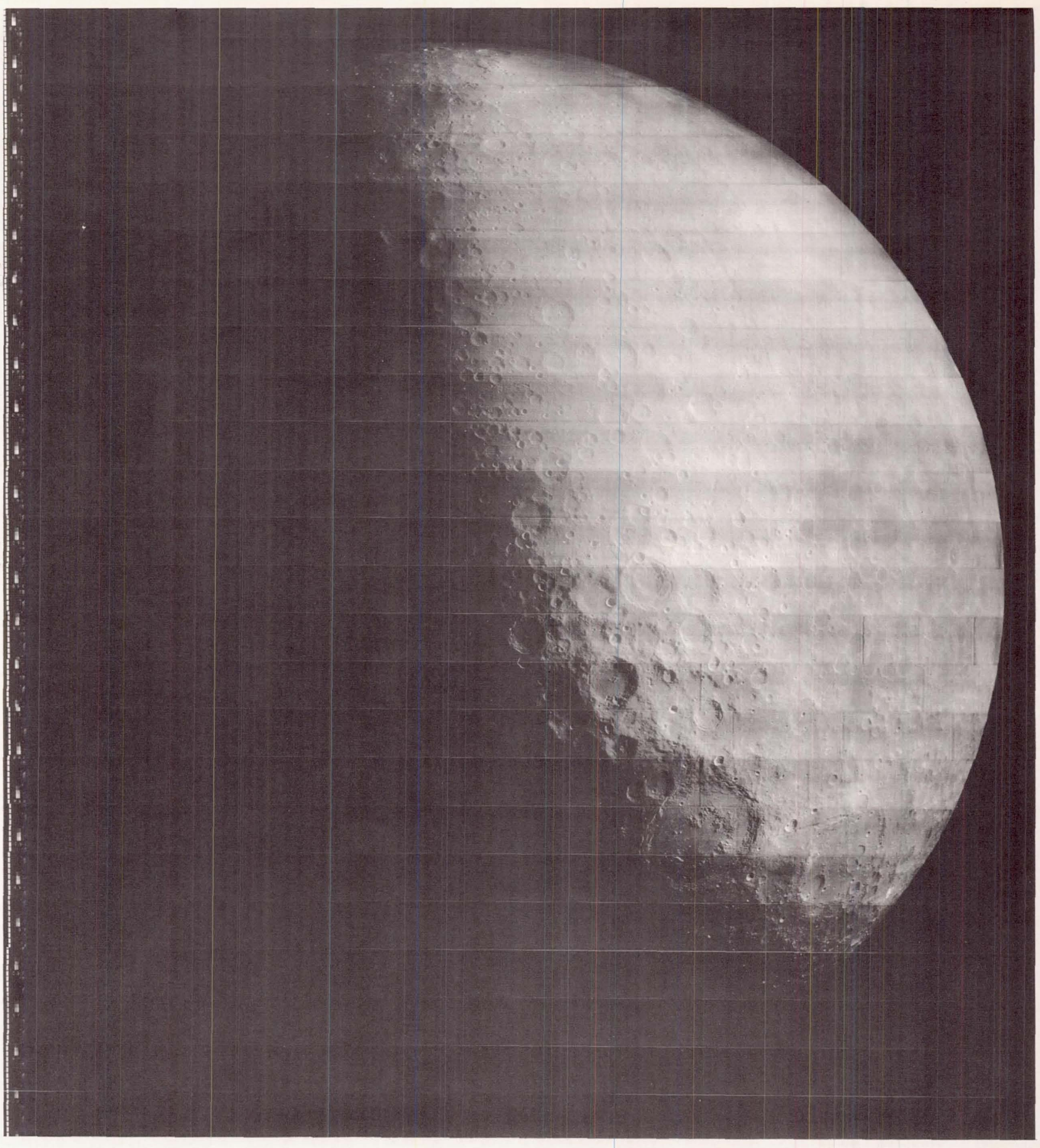
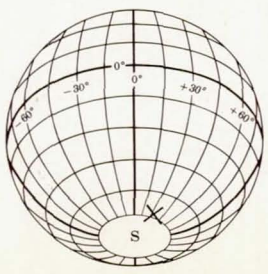



PLATE 488

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 111 KILOMETERS

N

PHOTO NO. IV-82-M

CENTER COORDINATES ..... LONG. 32.4°
LAT. −72.3°
NORTH DEVIATION (DEG.) ..... 5.9
SUN ANGLE ..... 81.3
SPACECRAFT ALTITUDE (KM) ..... 3502.9

PLATE 489

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-82-H3

CENTER COORDINATES ..... LONG. 32.47
LAT. —72.37
NORTH DEVIATION (DEG.) ..... 5.94
SUN ANGLE ..... 81.3
SPACECRAFT ALTITUDE (KM) ..... 3502.94

N

1 CENTIMETER ≈15 KILOMETERS

MUTUS .. G13

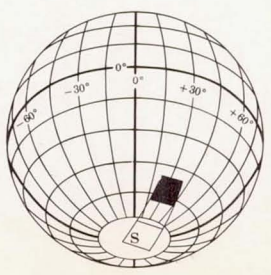
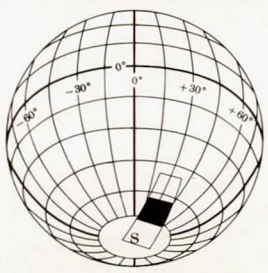



PLATE 490






BOGUSLAWSKY .. K8
MANZINUS ..... D2
SCHOMBERGER . D12

1 CENTIMETER ≈ 15 KILOMETERS

N

PHOTO NO. IV-82-H2

CENTER COORDINATES ..... LONG. 32.47
LAT. −72.37
NORTH DEVIATION (DEG.) ..... 5.94
SUN ANGLE ..... 81.3
SPACECRAFT ALTITUDE (KM) ..... 3502.94

PLATE 491

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

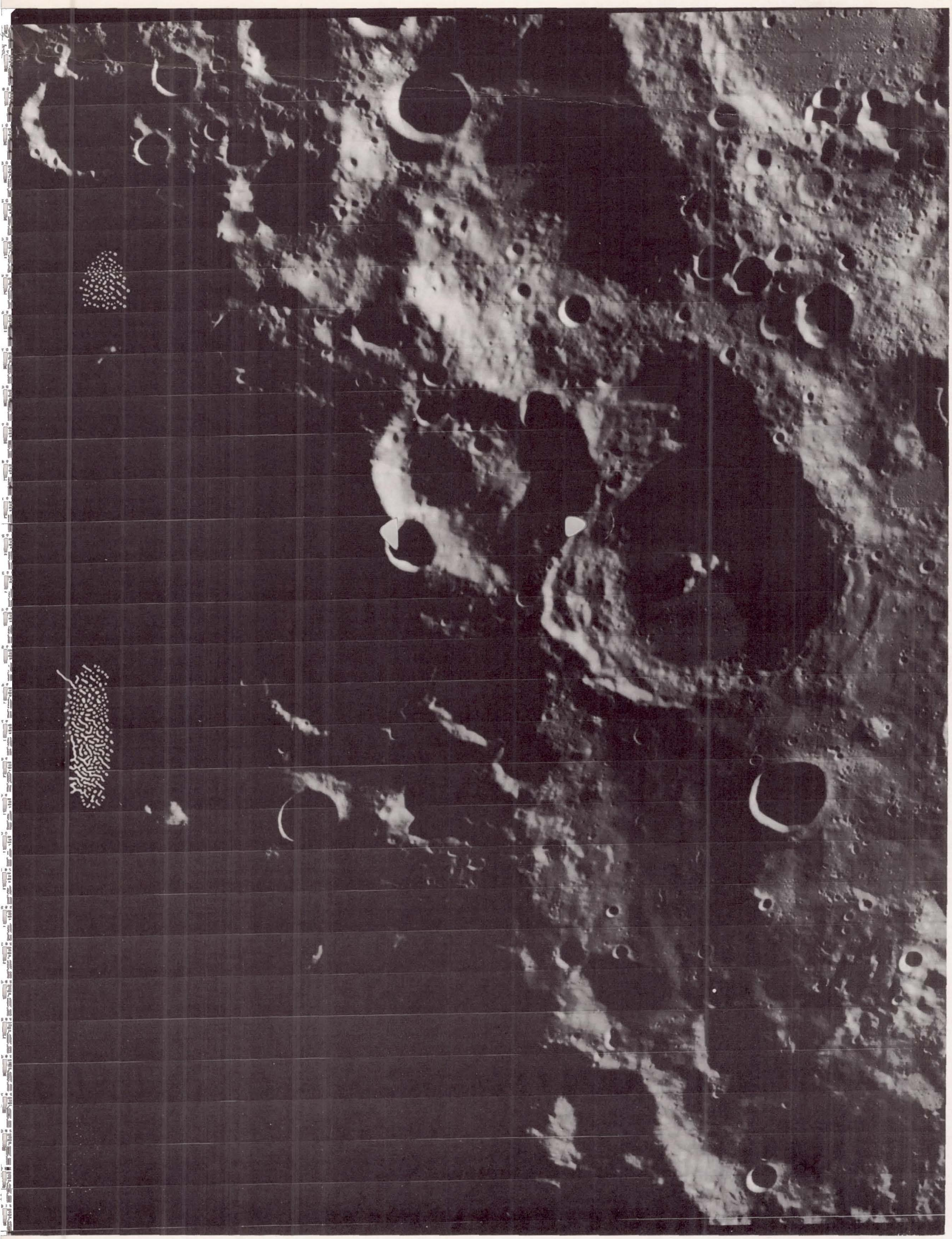


PHOTO NO. IV-82-H1

ENTER COORDINATES ..... LONG. 32.47
LAT. —72.37
ORTH DEVIATION (DEG.) ..... 5.94
UN ANGLE ..... 81.3
PACECRAFT ALTITUDE (KM) ..... 3502.94

N

1 CENTIMETER ≈15 KILOMETERS

AMUNDSEN ... C8

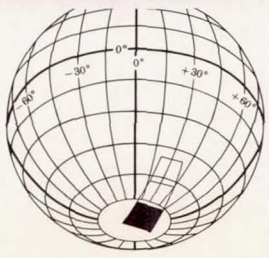
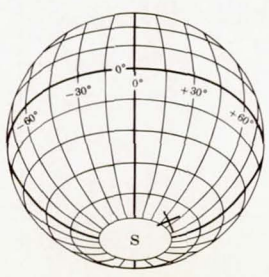



PLATE 492

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

NO ADEQUATE PHOTO IMAGERY OBTAINED FOR THIS FRAME




1 CENTIMETER ≈ 111 KILOMETERS

N

PHOTO NO. IV-70-M

CENTER COORDINATES ..... LONG. 49.0
LAT. −72.6
NORTH DEVIATION (DEG.) ..... 9.5
SUN ANGLE ..... 80.
SPACECRAFT ALTITUDE (KM) ..... 3496.4

PLATE 493

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-70-H3

CENTER COORDINATES ..... LONG. 49.06
LAT. −72.65
NORTH DEVIATION (DEG.) ..... 9.52
SUN ANGLE ..... 80.3
SPACECRAFT ALTITUDE (KM) .... 3496.53

N

1 CENTIMETER ≈ 15 KILOMETERS

HAGECIUS ..... E9
ROSENBERGER .... G5
VLACQ ..... K2

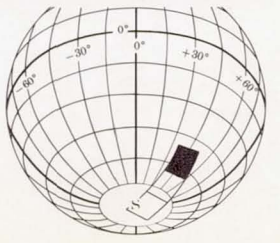
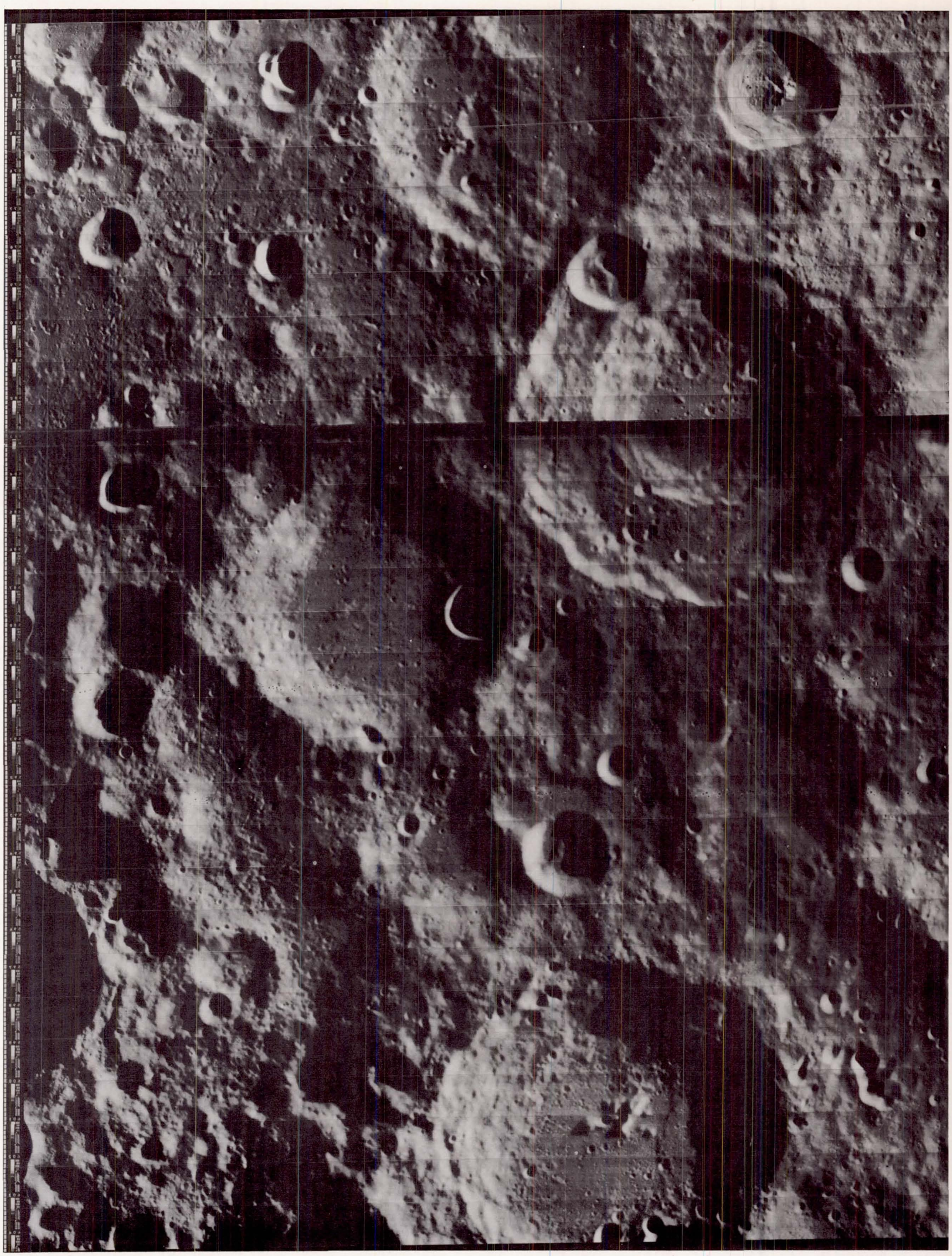
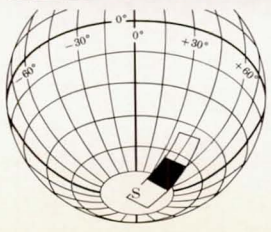



PLATE 494

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BOGUSLAWSKY ..... E8
BOUSSINGAULT .... J6
DEMONAX ..... H15

1 CENTIMETER ≈ 15 KILOMETERS

N

PHOTO NO. IV-70-H2

CENTER COORDINATES ..... LONG. 49.06
LAT. −72.65
NORTH DEVIATION (DEG.) ..... 9.52
SUN ANGLE ..... 80.3
SPACECRAFT ALTITUDE (KM) ..... 3496.53

PLATE 495

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

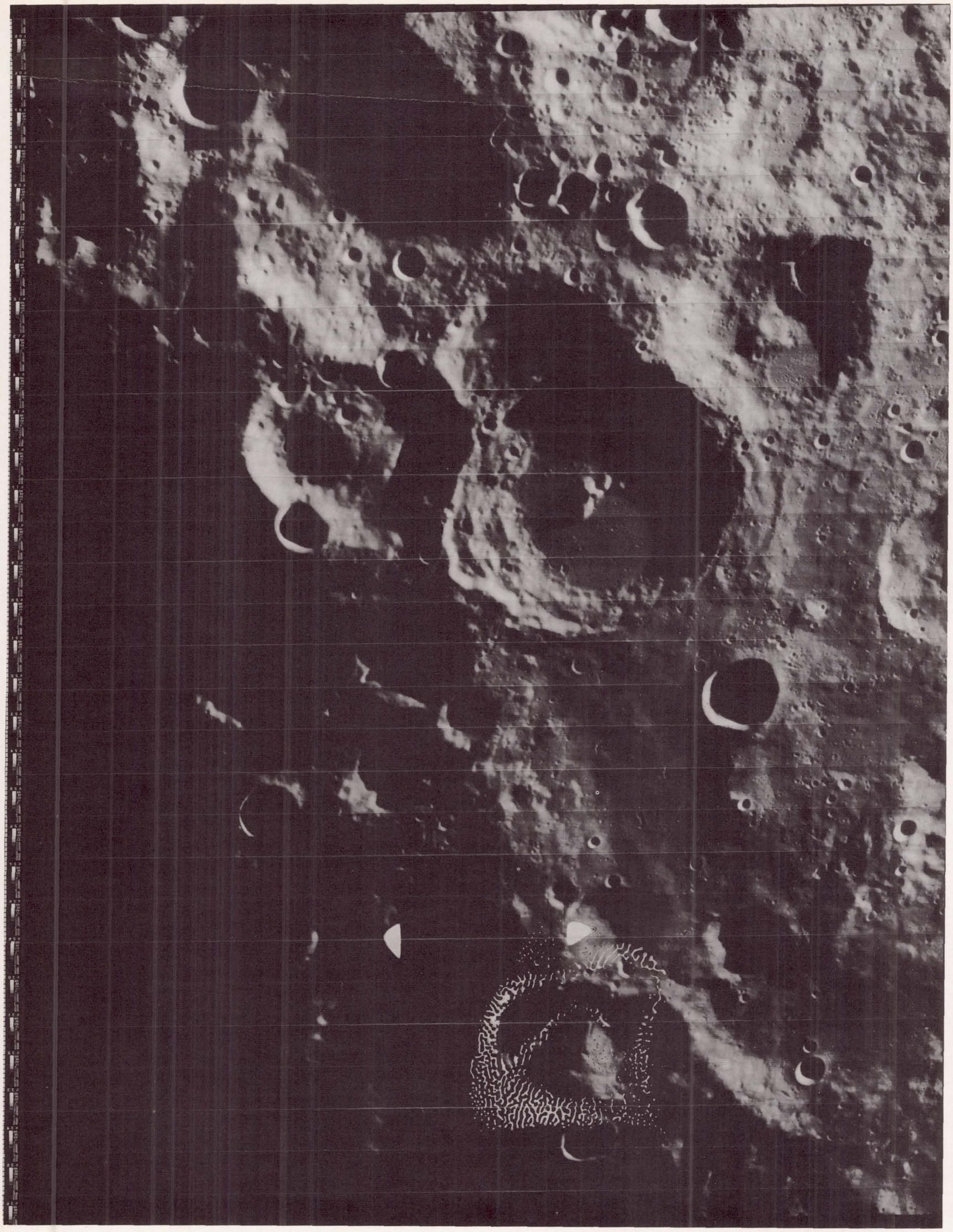


PHOTO NO. IV-70-H1

CENTER COORDINATES ..... LONG. 49.06
LAT. −72.65
*NORTH DEVIATION (DEG.)* ..... 9.52
SUN ANGLE ..... 80.3
SPACECRAFT ALTITUDE (KM) ..... 3496.53

N

1 CENTIMETER ≈ 15 KILOMETERS

AMUNDSEN.... E7
SCOTT..... H2

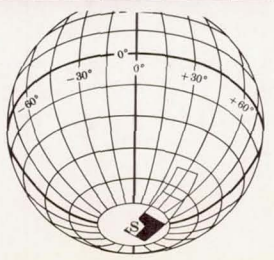
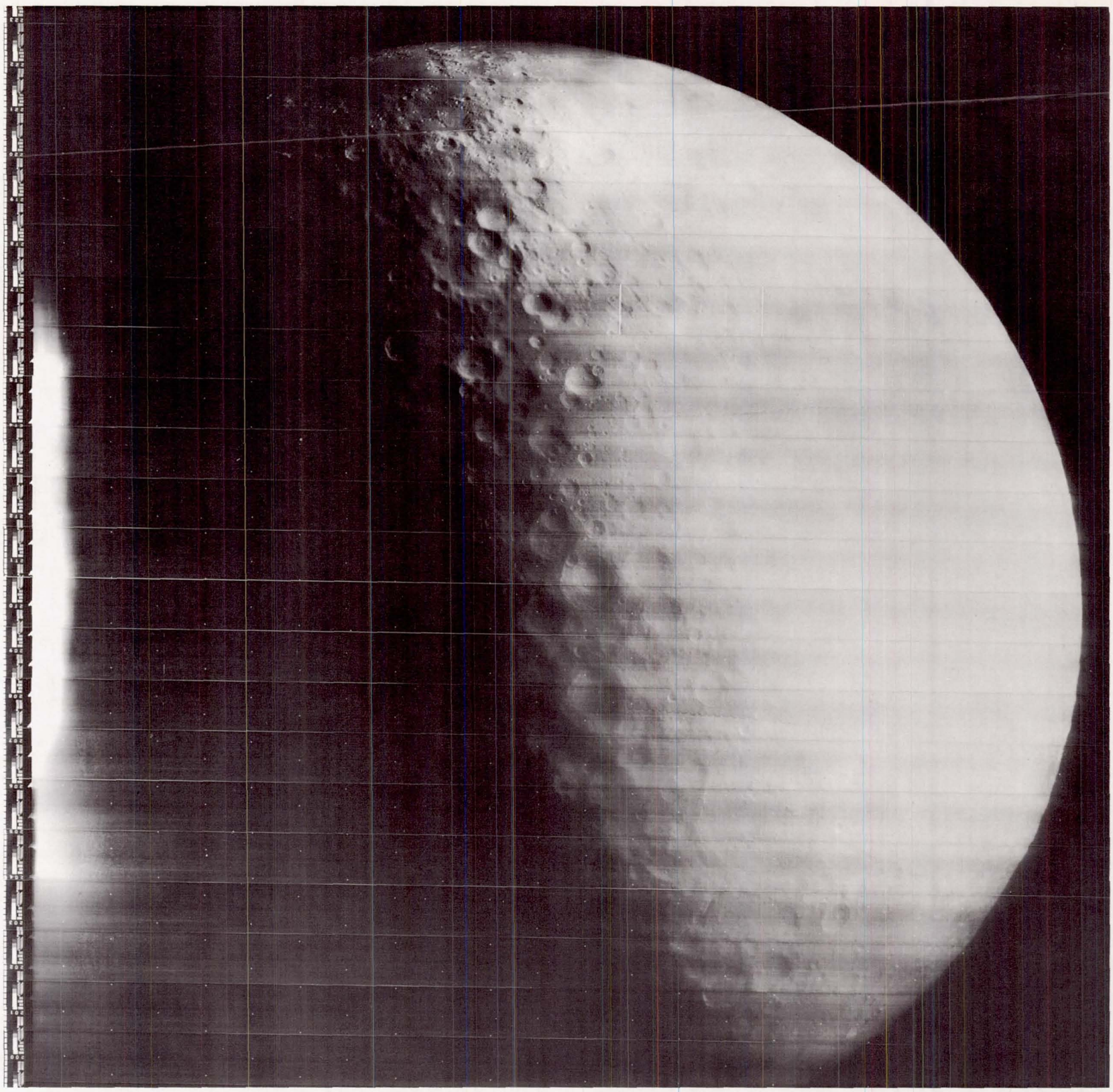
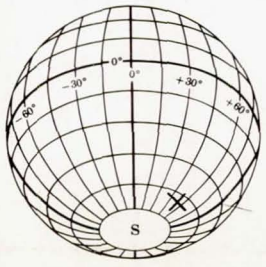



PLATE 496

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BOUSSINGAULT.....G6
JANSSEN.....E3
MARE NECTARIS....D1

1 CENTIMETER≈111 KILOMETERS

N

PHOTO NO. IV-58-M

CENTER COORDINATES..... LONG. 54.40
LAT. −71.57
NORTH DEVIATION (DEG.).....4.51
SUN ANGLE.....81.5
SPACECRAFT ALTITUDE (KM).....3493.61

PLATE 497

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-58-H3

NTER COORDINATES ..... LONG. 54.40
LAT. −71.58
RTH DEVIATION (DEG.) ..... 4.51
N ANGLE ..... 81.5
ACECRAFT ALTITUDE (KM) ..... 3493.64

N

1 CENTIMETER ≈ 15 KILOMETERS

BIELA ..... G5

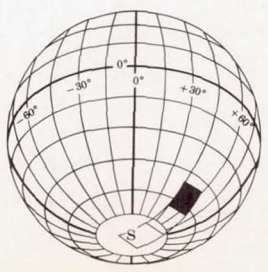
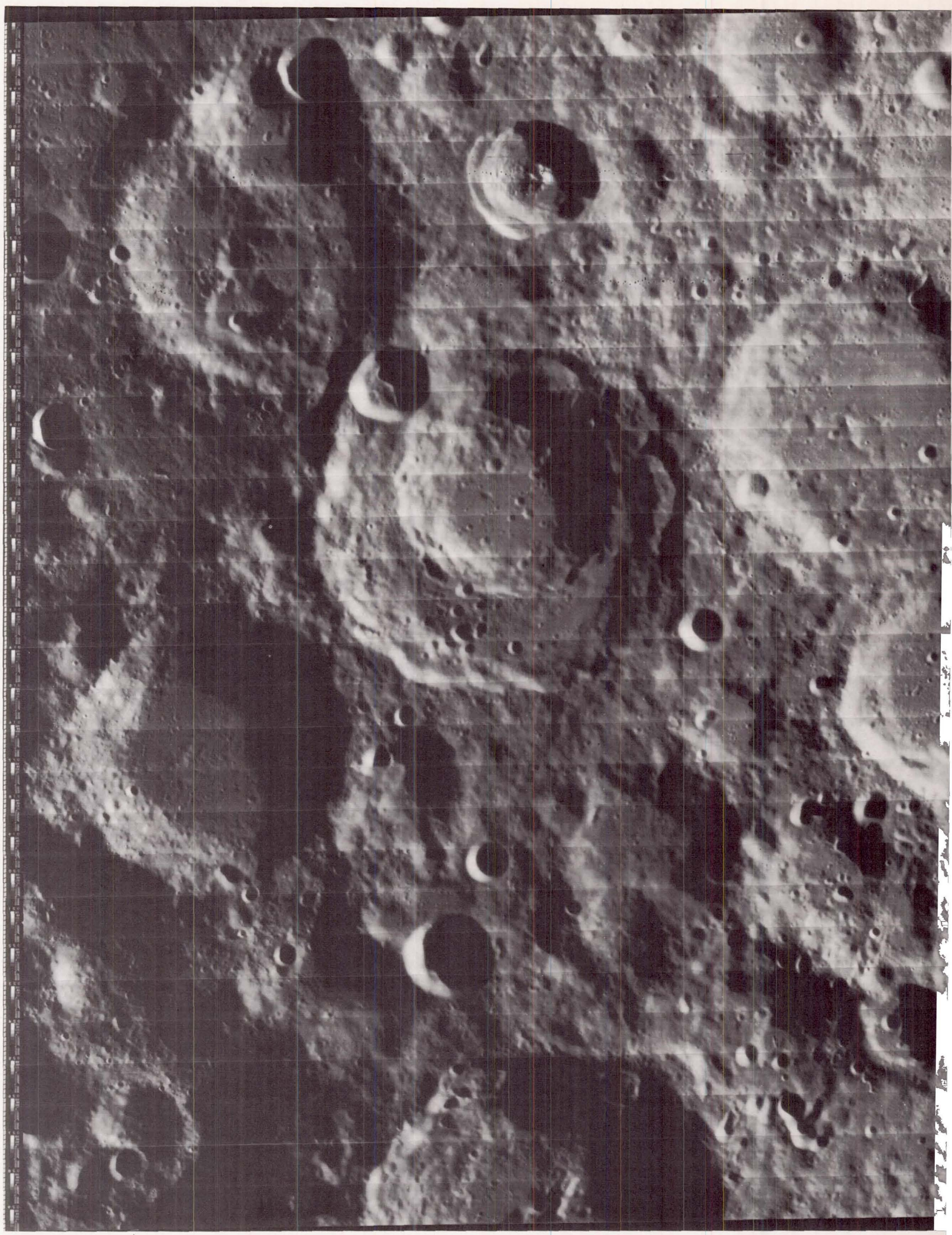
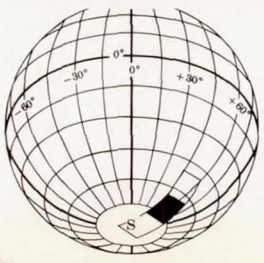



PLATE 498

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BOGUSLAWSKY .....C10
BOUSSINGAULT .....G7
DEMONAX .....G15
HELMHOLTZ ..... L6
NEUMAYER .....M9

1 CENTIMETER ≈ 15 KILOMETERS

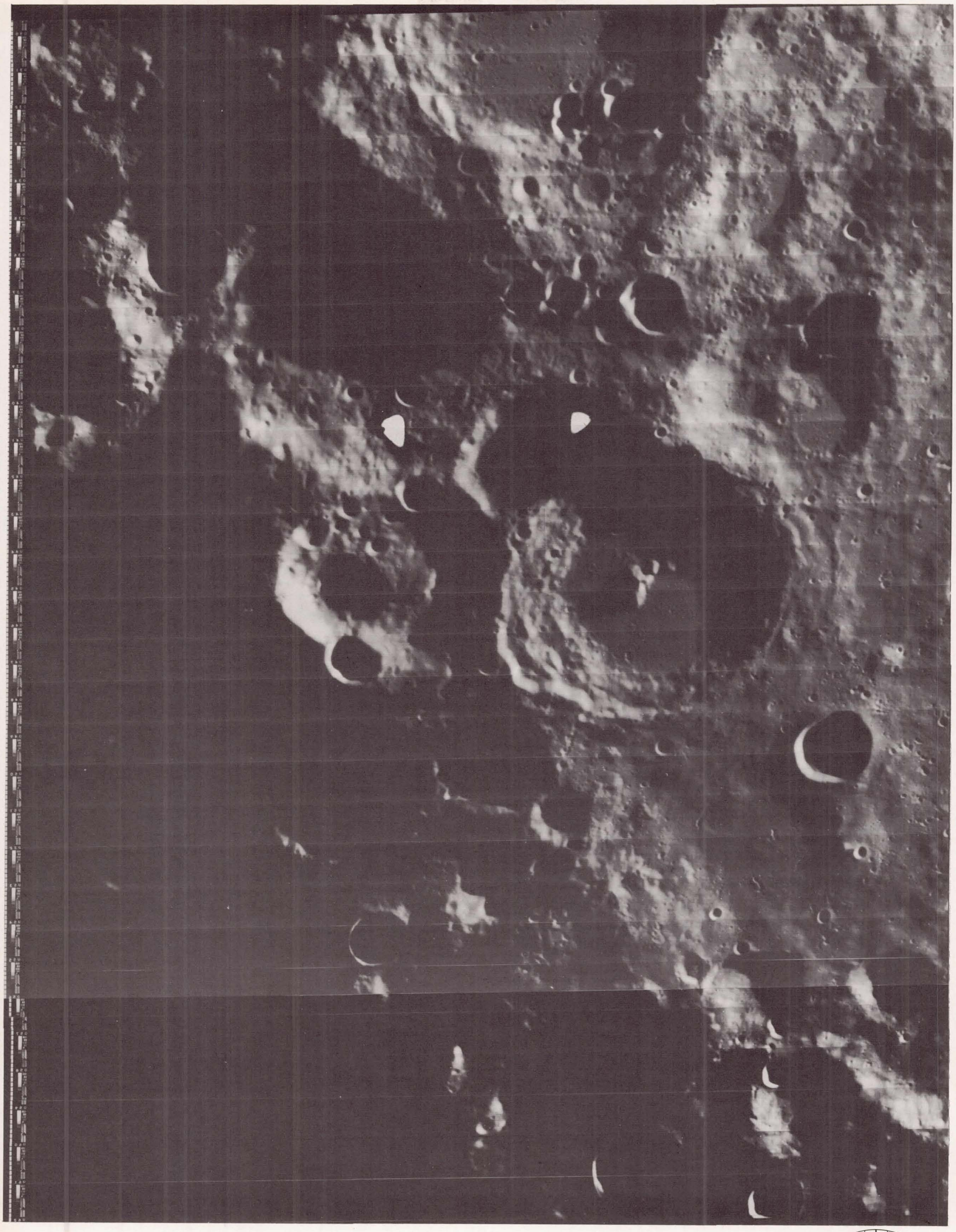
N

PHOTO NO. IV-58-H2

CENTER COORDINATES ..... LONG. 54.
LAT. –71.
NORTH DEVIATION (DEG.) ..... 4.
SUN ANGLE ..... 81
SPACECRAFT ALTITUDE (KM) ..... 3493.

PLATE 499

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-58-H1

CENTER COORDINATES ..... LONG. 54.40
LAT. −71.58
NORTH DEVIATION (DEG.) ..... 4.51
SUN ANGLE ..... 81.5
SPACECRAFT ALTITUDE (KM) .... 3493.64

N

1 CENTIMETER ≈15 KILOMETERS

AMUNDSEN ... D8

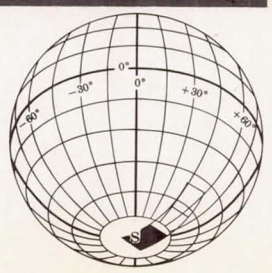
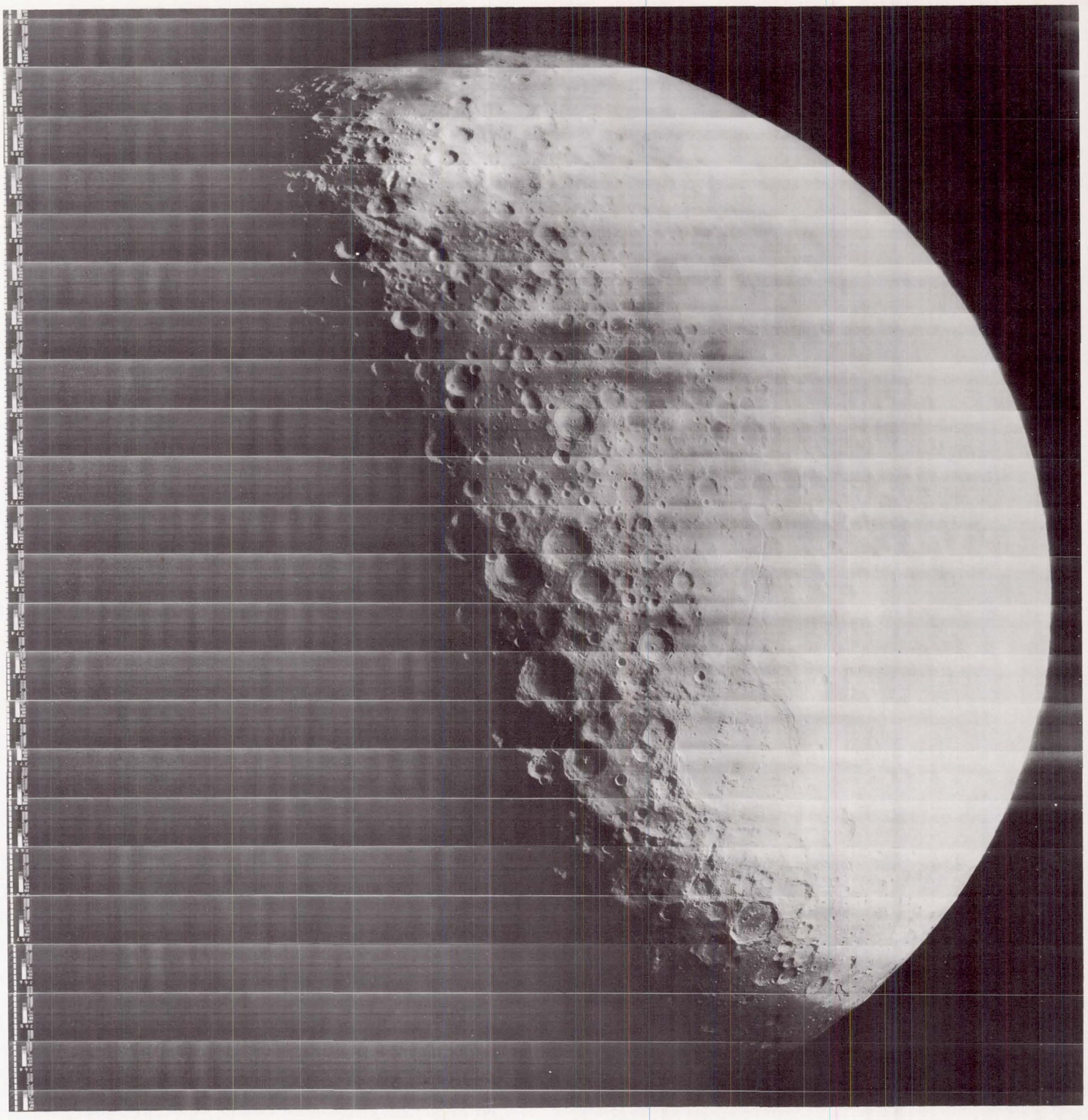
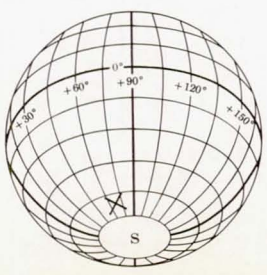



PLATE 500

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BOUSSINGAULT .. F7
HALE ..... G7

1 CENTIMETER ≈ 111 KILOMETERS

N

PHOTO NO. IV-44-M

CENTER COORDINATES ..... LONG. 69.06
LAT. −72.11
NORTH DEVIATION (DEG.) ..... 5.72
SUN ANGLE ..... 81.1
SPACECRAFT ALTITUDE (KM) ..... 3497.55

PLATE 501

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

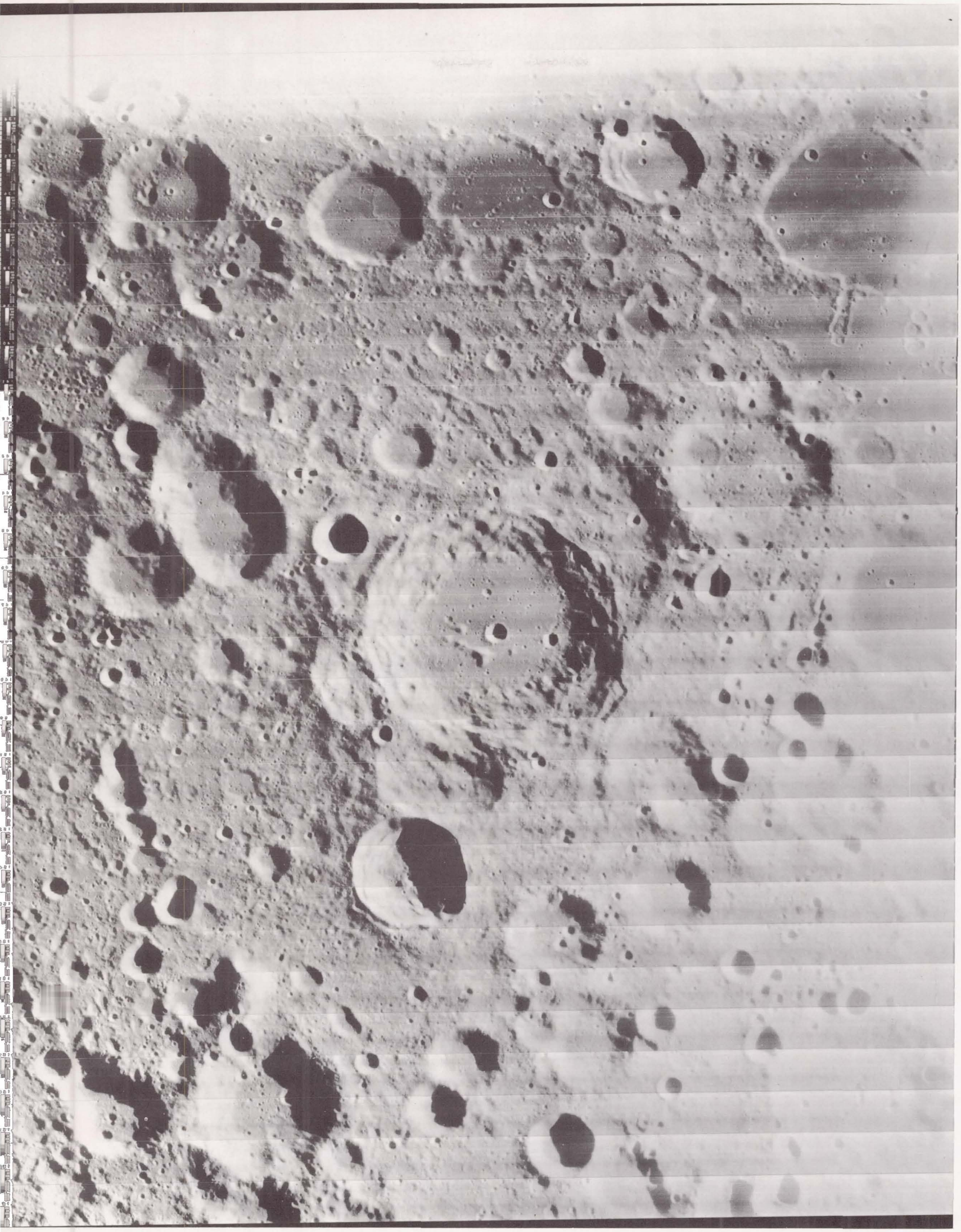


PHOTO NO. IV-44-H3

:NTER COORDINATES ..... LONG. 69.06
LAT. −72.12
)RTH DEVIATION (DEG.) ..... 5.72
N ANGLE ..... 81.1
ACECRAFT ALTITUDE (KM) .... 3497.58

N

1 CENTIMETER ≈ 15 KILOMETERS

GILL ..... B14
PONTÉCOULANT .... F8

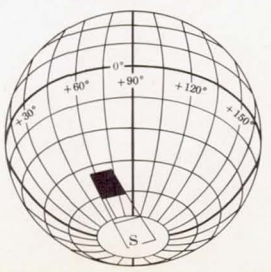
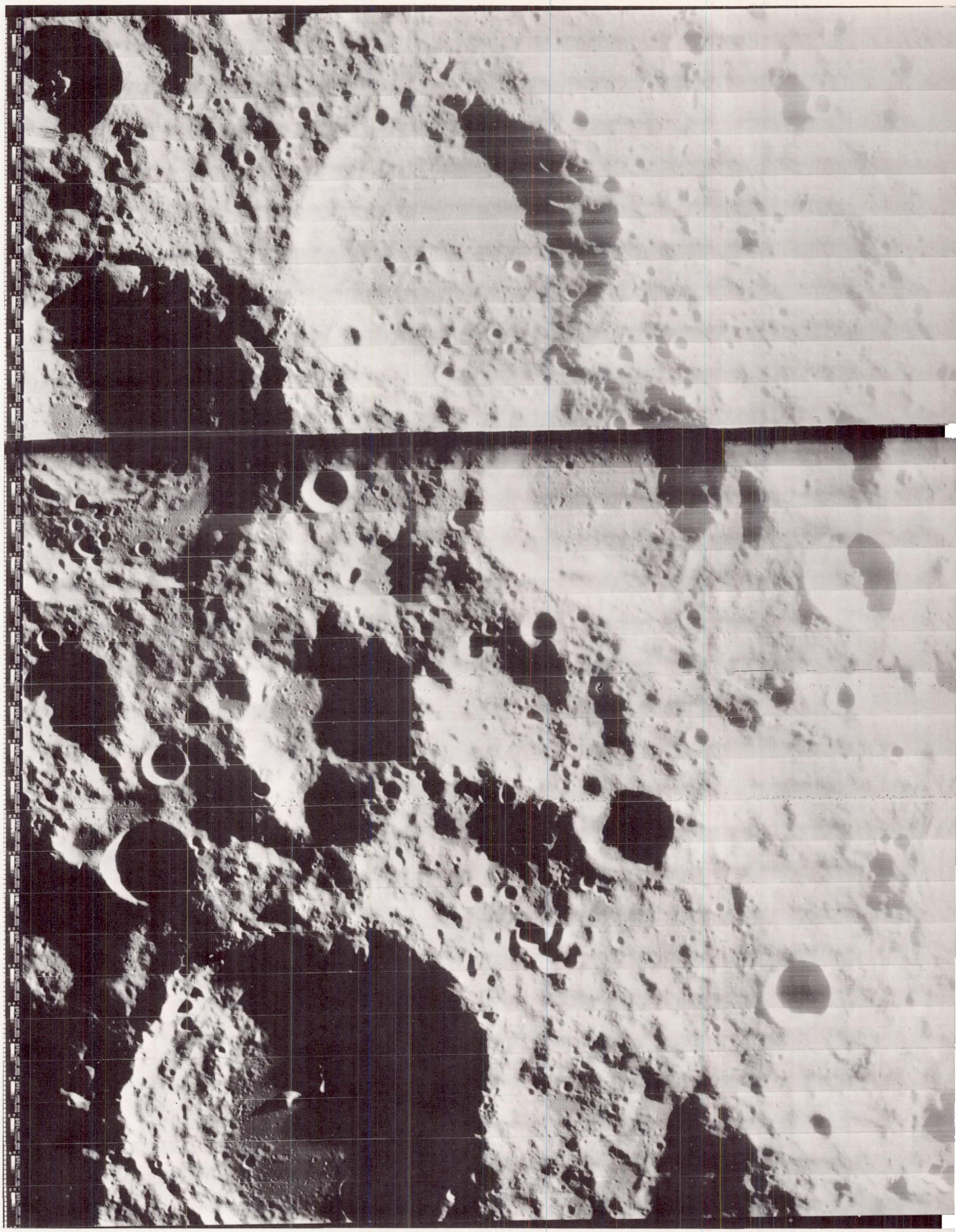
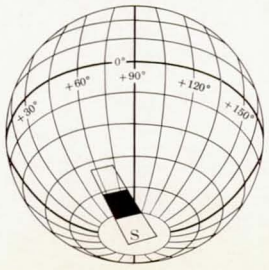



PLATE 502

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BOUSSINGAULT .. B6
HELMHOLTZ ..... F4
NEUMAYER ..... H7

1 CENTIMETER ≈ 15 KILOMETERS

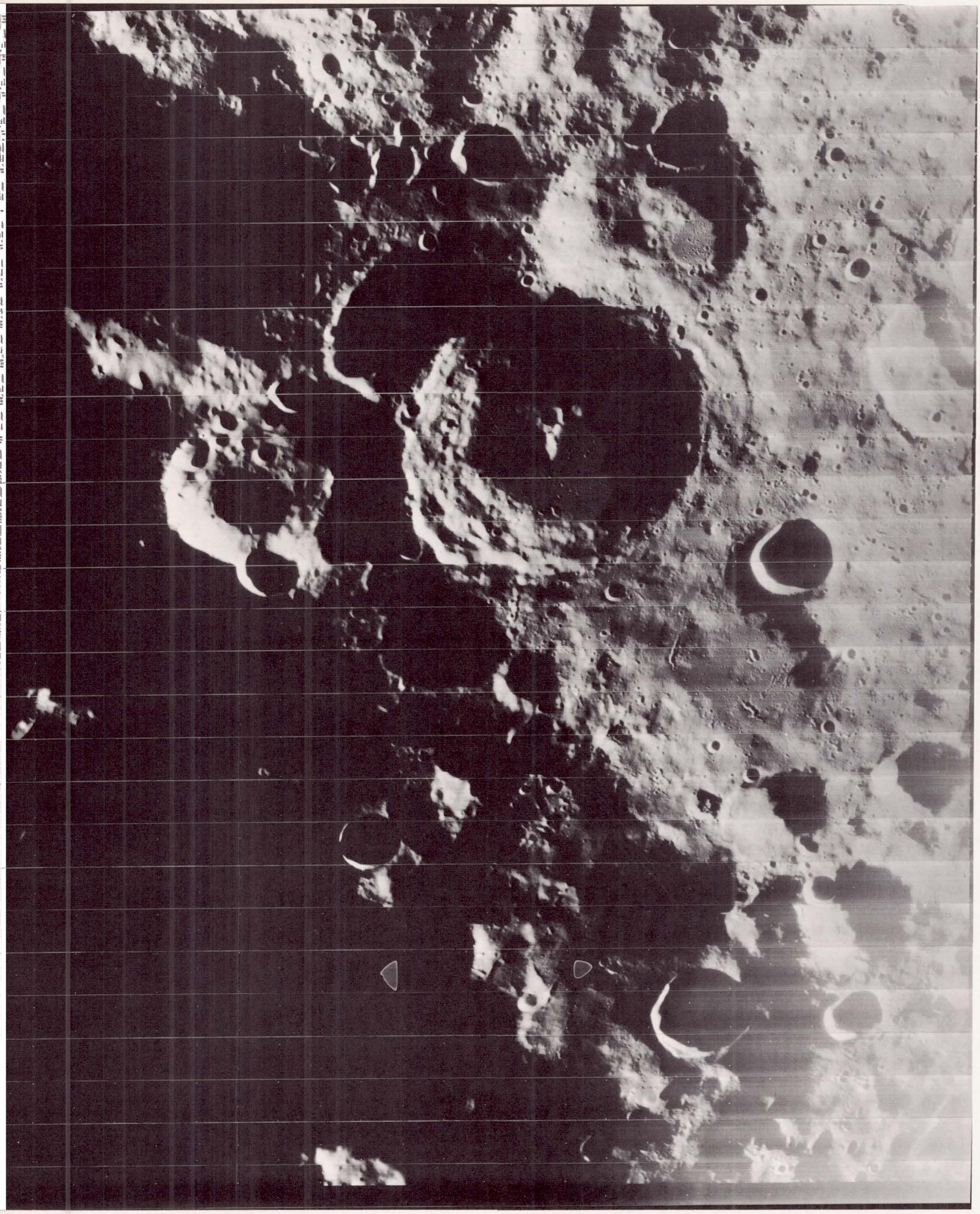
N

PHOTO NO. IV-44-H2

CENTER COORDINATES ..... LONG. 69.
LAT. −72.
NORTH DEVIATION (DEG.) ..... 5.
SUN ANGLE ..... 8
SPACECRAFT ALTITUDE (KM) ..... 3497.

PLATE 503

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-44-H1

ENTER COORDINATES ..... LONG 69.06
LAT. −72.12
ORTH DEVIATION (DEG.) ..... 5.72
N ANGLE ..... 81.1
ACECRAFT ALTITUDE (KM) ..... 3497.58

N

1 CENTIMETER ≈ 15 KILOMETERS

AMUNDSEN ..... E6

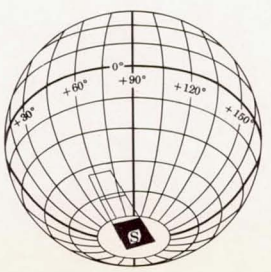
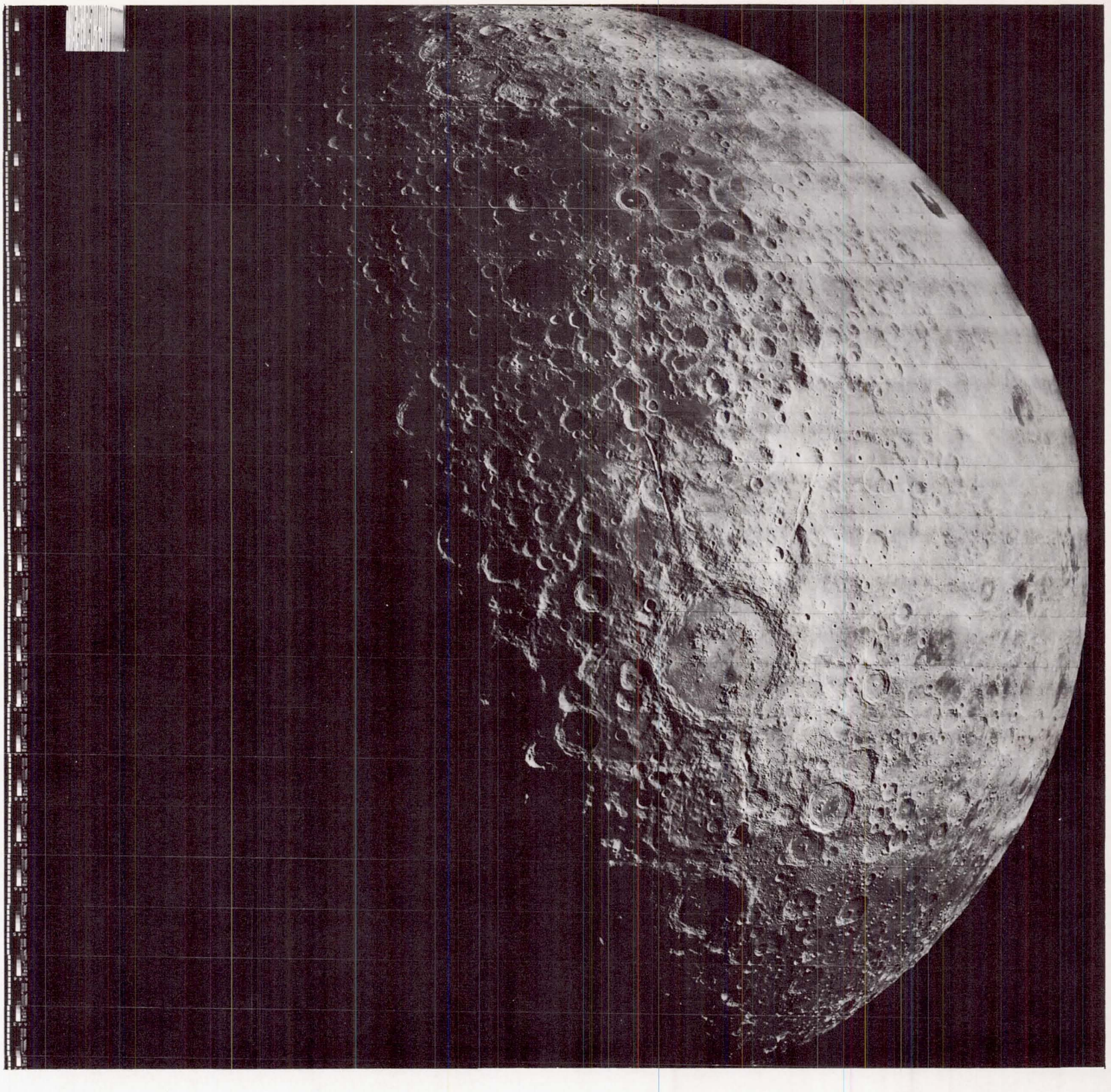
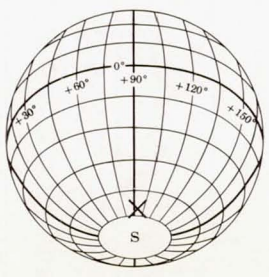



PLATE 504

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15






AMUNDSEN ..... G8
HALE ..... G7

1 CENTIMETER ≈ 111 KILOMETERS

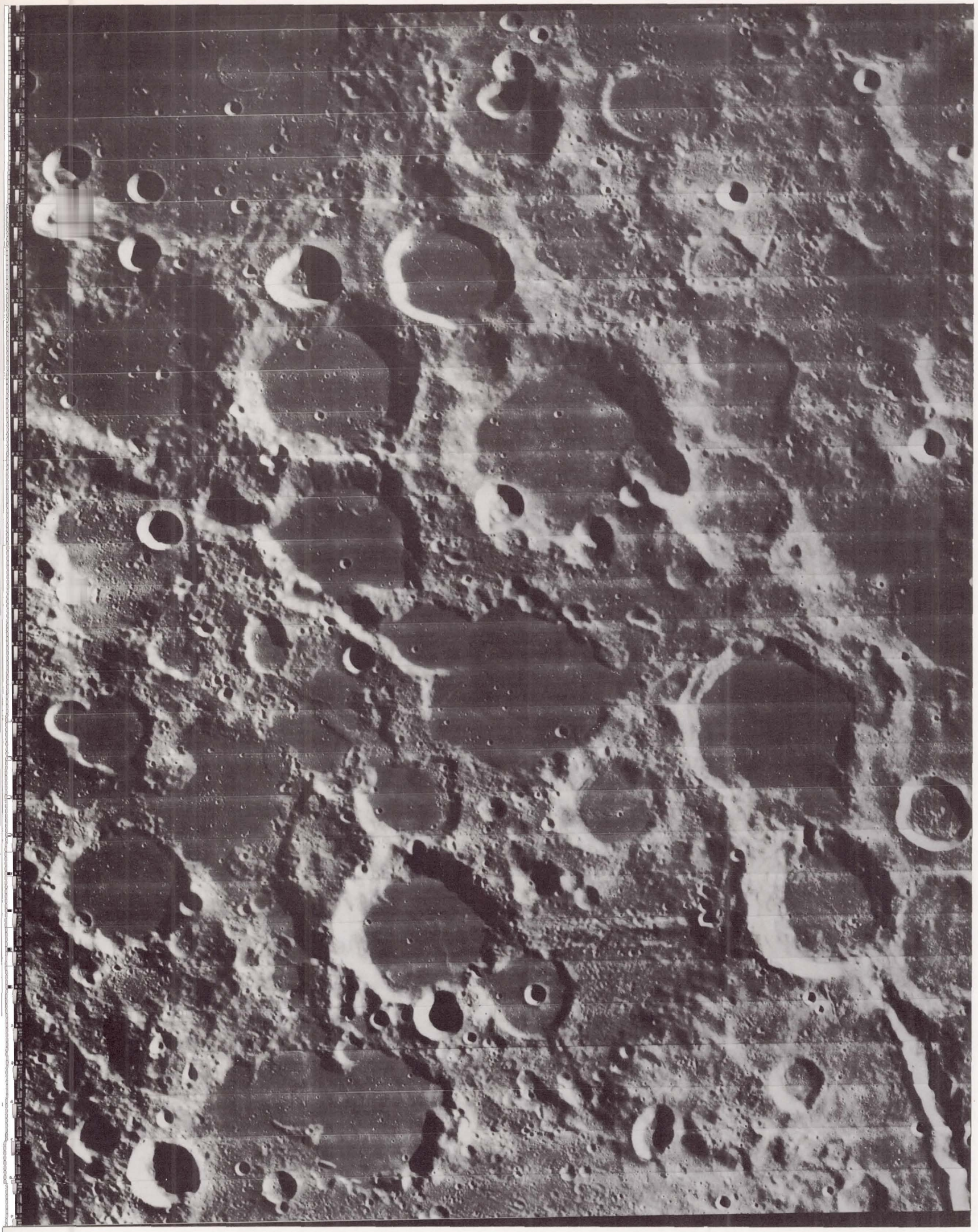
N

PHOTO NO. IV-8-M

CENTER COORDINATES ..... LONG. 91.3
LAT. −70.4
NORTH DEVIATION (DEG.) ..... 1.3
SUN ANGLE ..... 80.
SPACECRAFT ALTITUDE (KM) ..... 3505.0

PLATE 505

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-5-H3

ENTER COORDINATES ..... LONG. 91.31
LAT. −71.50
ORTH DEVIATION (DEG.) ..... 1.44
UN ANGLE ..... 81.4
PACECRAFT ALTITUDE (KM) .... 3512.53

N

1 CENTIMETER ≈ 16 KILOMETERS

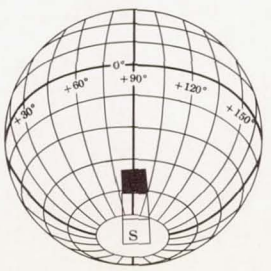
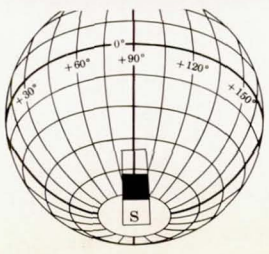



PLATE 506

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HALE ..... G11

1 CENTIMETER ≈ 16 KILOMETERS

N

PHOTO NO. IV-5-H2

CENTER COORDINATES ..... LONG. 91.3
LAT. −71.5
NORTH DEVIATION (DEG.) ..... 1.4
SUN ANGLE ..... 81.
SPACECRAFT ALTITUDE (KM) ..... 3512.5

PLATE 507

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

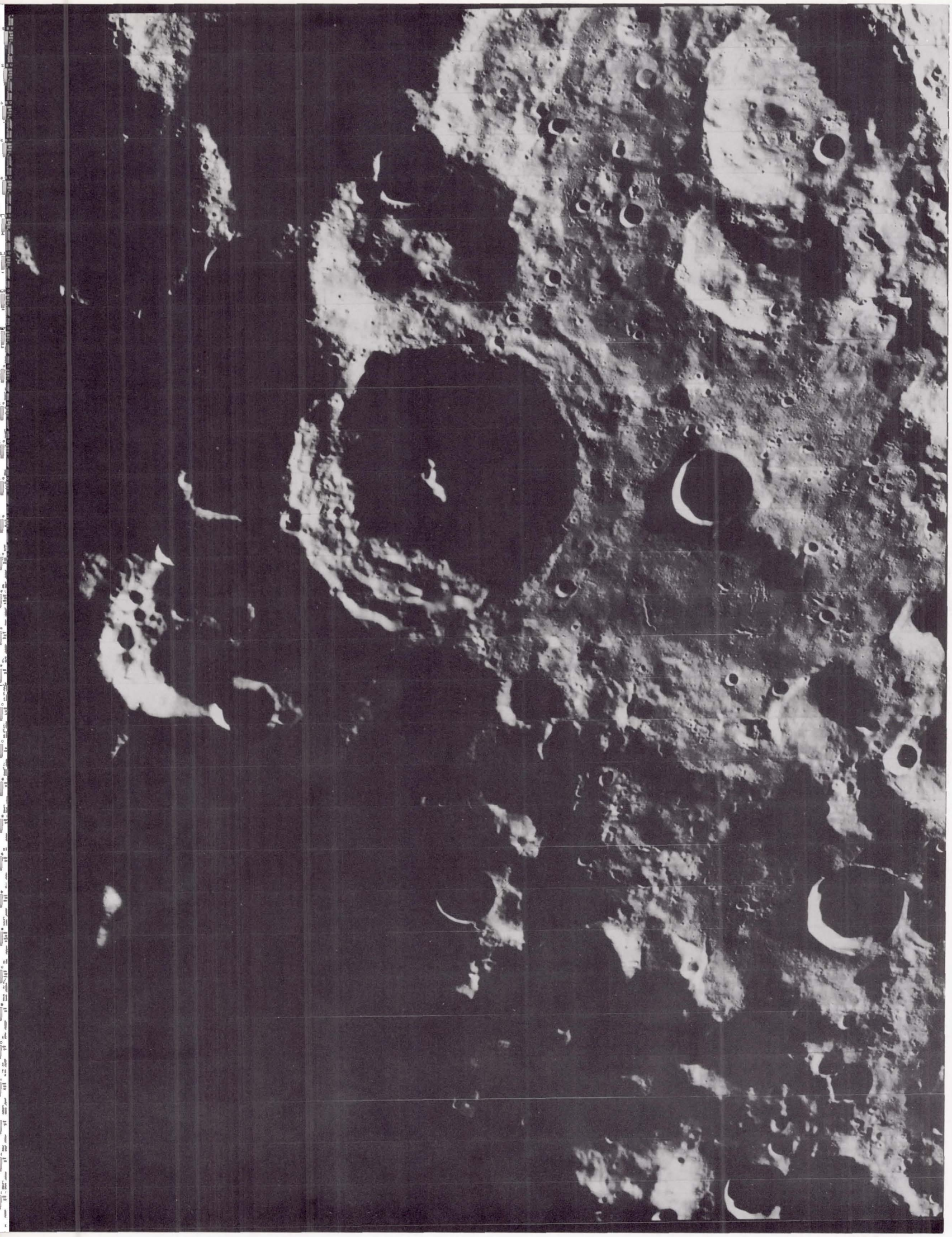


PHOTO NO. IV-5-H1

NTER COORDINATES ..... LONG. 91.31
LAT. −71.50
RTH DEVIATION (DEG.) ..... 1.44
N ANGLE ..... 81.4
ACECRAFT ALTITUDE (KM) ..... 3512.53

N

1 CENTIMETER ≈ 16 KILOMETERS

AMUNDSEN ..... G6

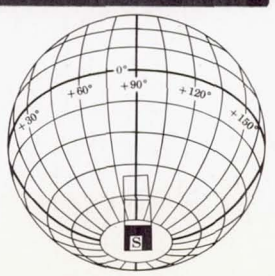
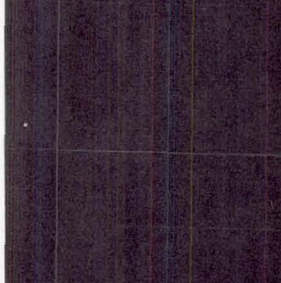



PLATE 508

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




MARE CRISIUM ..... F6
MARE FECUNDITATIS ..... F7
MARE TRANQUILLITATIS .... E6

1 CENTIMETER ≈ 181 KILOMETERS

N

PHOTO NO. IV-192-M

CENTER COORDINATES ..... LONG. 53.
LAT. 38.
NORTH DEVIATION (DEG.) .....192.
SUN ANGLE .....7
SPACECRAFT ALTITUDE (KM) .....5504.

PLATE 509

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-191-H1

ENTER COORDINATES ..... LONG. 53.79
LAT. 38.30
ORTH DEVIATION (DEG.) ..... 192.26
UN ANGLE ..... 73.7
PACECRAFT ALTITUDE (KM) ..... 5503.39

N

1 CENTIMETER ≈24 KILOMETERS

| | |
|---|---|
| ARNOLD | D8 |
| BARROW | D4 |
| DE LA RUE | B12 |
| ENDYMION | B15 |
| GÄRTNER | G11 |
| GOLDSCHMIDT | C3 |
| METON | B4 |
| STRABO | A11 |

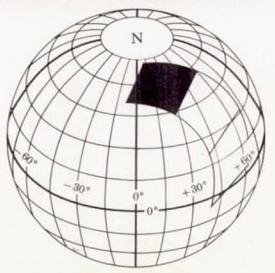
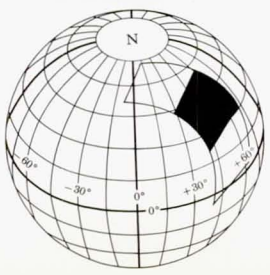



PLATE 510

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| ATLAS | E4 |
| BURCKHARDT | G15 |
| ENDYMION | K1 |
| FRANKLIN | D9 |
| GEMINUS | G13 |
| HERCULES | C3 |
| MESSALA | J9 |

1 CENTIMETER ≈ 24 KILOMETERS

N

PHOTO NO. IV-191-H2

| | |
|---|---|
| CENTER COORDINATES | LONG. 53.7 |
| | LAT. 38.3 |
| NORTH DEVIATION (DEG.) | 192.2 |
| SUN ANGLE | 73. |
| SPACECRAFT ALTITUDE (KM) | 5503.3 |

PLATE 511

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

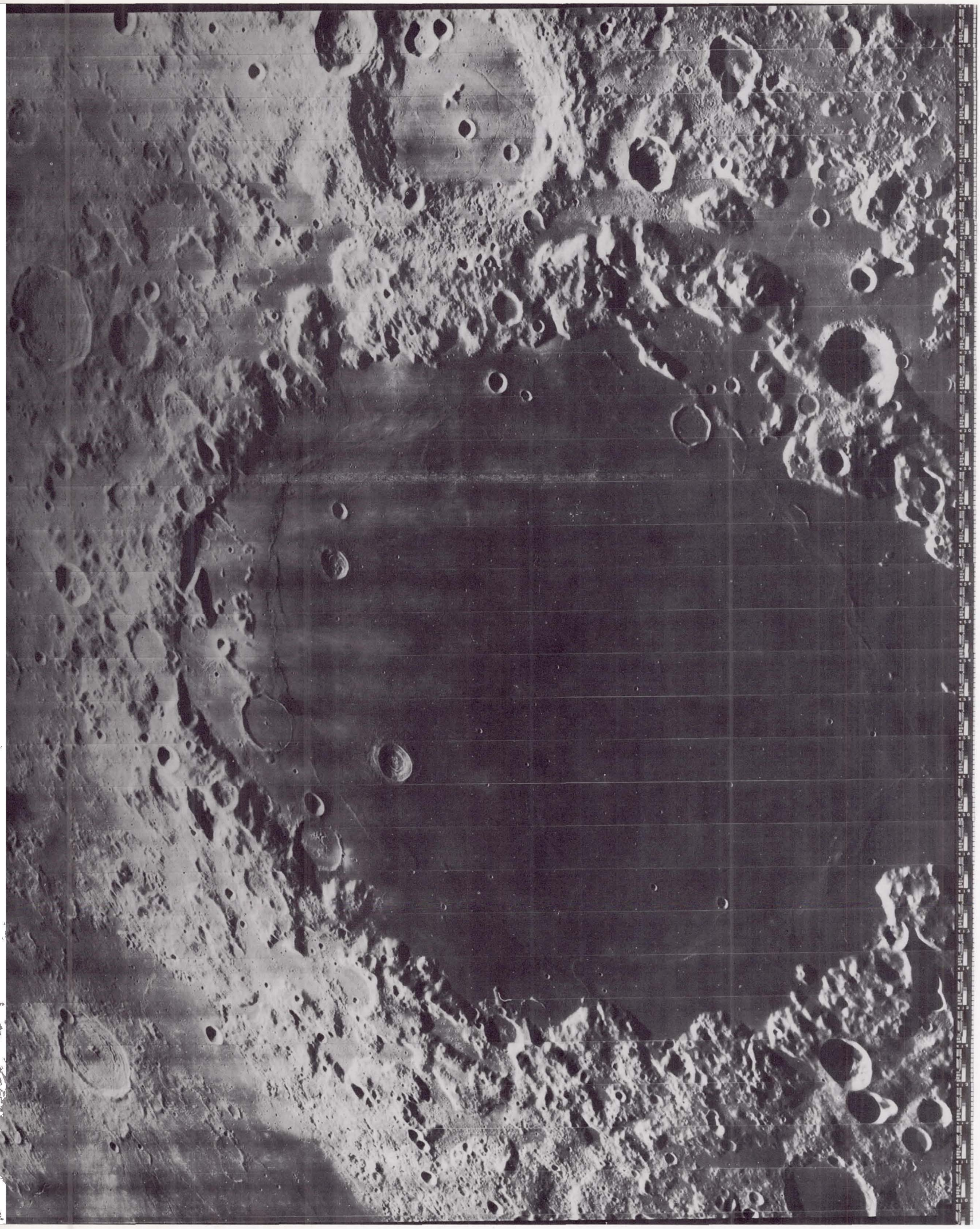


PHOTO NO. IV-191-H3

CENTER COORDINATES ..... LONG. 53.79
LAT. 38.30
NORTH DEVIATION (DEG.) ..... 192.26
SUN ANGLE ..... 73.7
SPACECRAFT ALTITUDE (KM) ..... 5503.39

N

1 CENTIMETER ≈24 KILOMETERS

CLEOMEDES .... G2
EIMMART ..... B5
FIRMICUS ..... B15
LICK ..... H11
MACROBIUS .... M4
PEIRCE ..... H7
PICARD ..... H10
TARUNTIUS .... L13
YERKES ..... J9

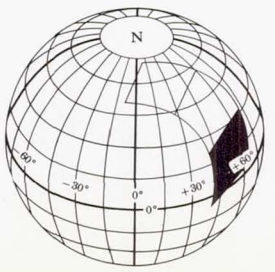
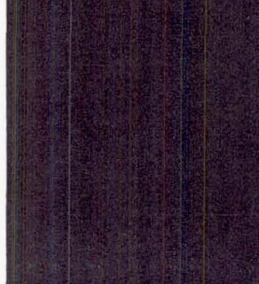



PLATE 512

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




LACUS SOMNIORUM .... F3
MARE CRISIUM .....G4

1 CENTIMETER ≈181 KILOMETERS

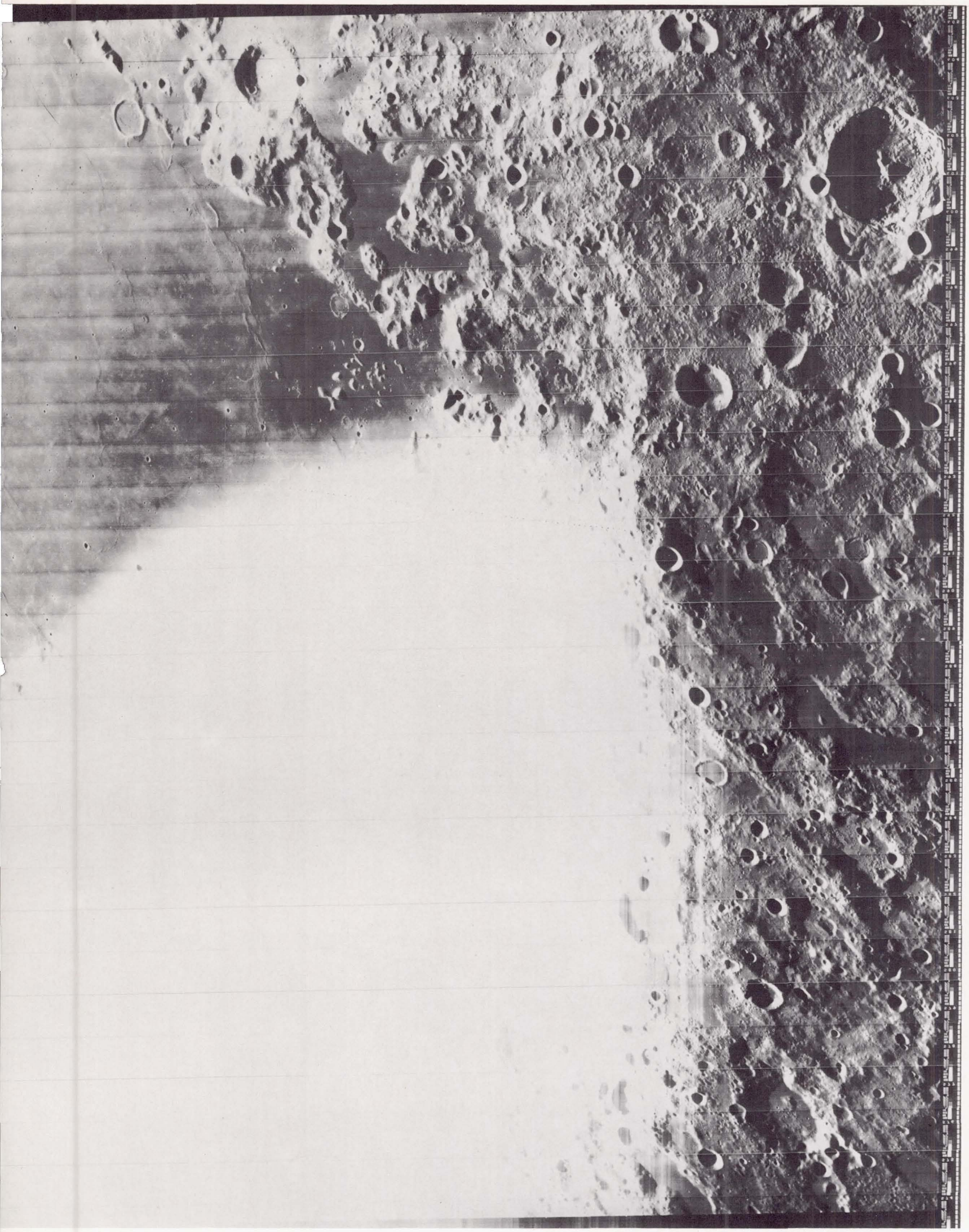
N

PHOTO NO. IV-177-M

CENTER COORDINATES ..... LONG. 67.8
LAT. 38.8
NORTH DEVIATION (DEG.) .....191.4
SUN ANGLE .....75.
SPACECRAFT ALTITUDE (KM) .....5491.8

PLATE 513

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-177-H1

CENTER COORDINATES ..... LONG. 67.86
LAT. 38.81
NORTH DEVIATION (DEG.) ..... 191.42
SUN ANGLE ..... 75.2
SPACECRAFT ALTITUDE (KM) ..... 5491.85

N

1 CENTIMETER ≈ 24 KILOMETERS

ARNOLD ..... F4
BAILLAUD ..... B1
DE LA RUE ..... F9
DEMOCRITUS ..... H6
ENDYMION ..... G12
GARTNER ..... J7
STRABO ..... E8
THALES ..... F7

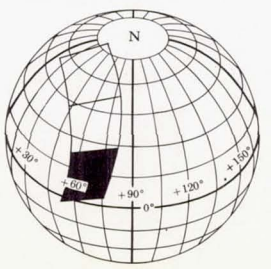
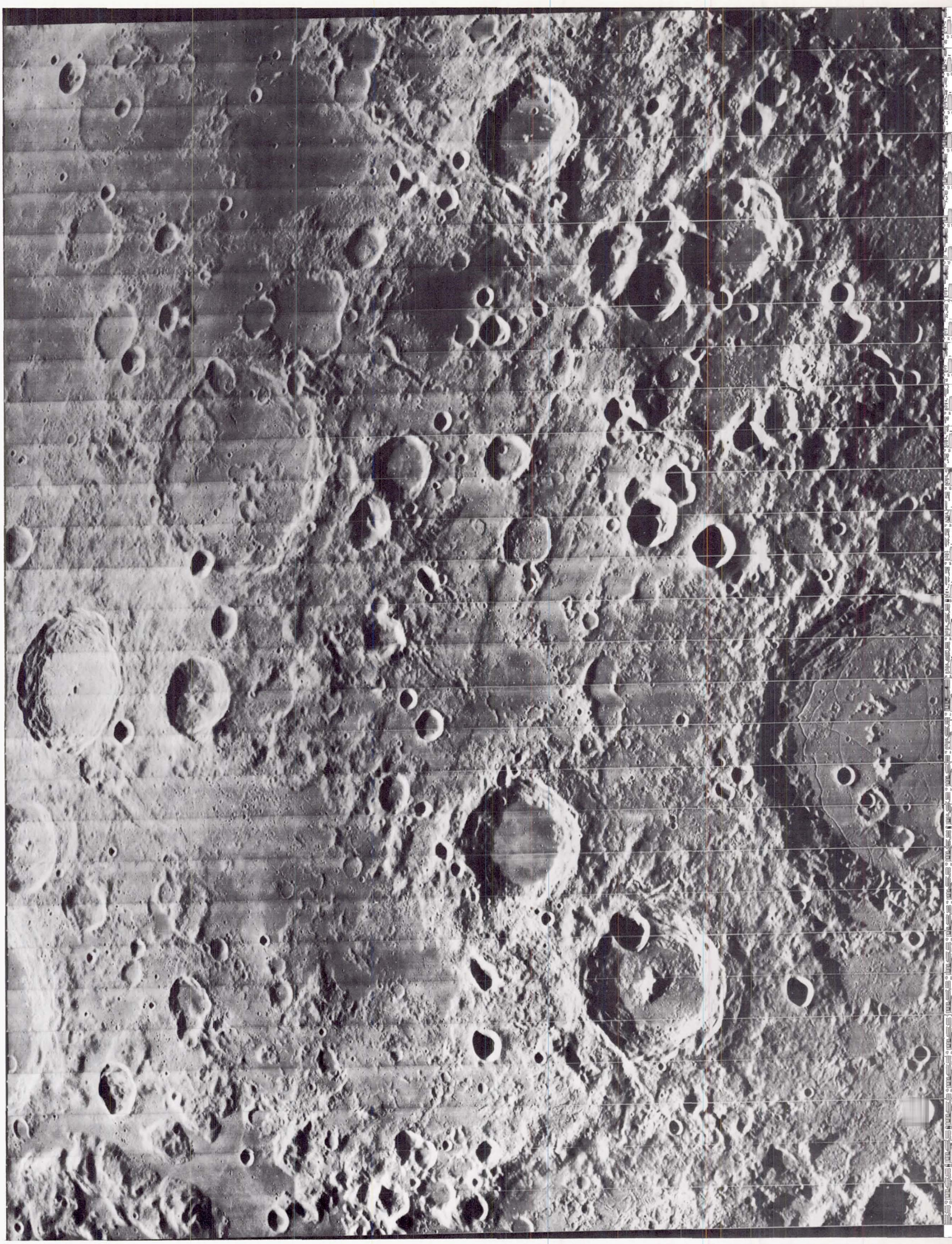
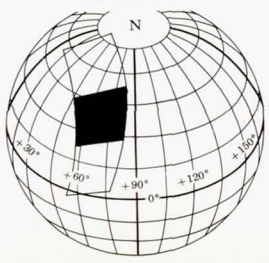



PLATE 514

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| BURCKHARDT | A11 |
| CHEVALLIER | B2 |
| DELMOTTE | B14 |
| GAUSS | M10 |
| GEMINUS | A9 |
| HOOKE | B5 |
| MERCURIUS | G2 |
| MESSAL | C6 |
| SCHUMACHER | D4 |
| ZENO | K3 |

1 CENTIMETER ≈ 24 KILOMETERS

N

PHOTO NO. IV-177-H2

| | |
|---|---|
| CENTER COORDINATES | LONG. 67 |
| | LAT. 38 |
| NORTH DEVIATION (DEG.) | 191 |
| SUN ANGLE | 7 |
| SPACECRAFT ALTITUDE (KM) | 5491 |

PLATE 515

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-177-H3

CENTER COORDINATES ..... LONG. 67.86
LAT. 38.81
NORTH DEVIATION (DEG.) ..... 191.42
SUN ANGLE ..... 75.2
SPACECRAFT ALTITUDE (KM) ..... 5491.85

N

1 CENTIMETER ≈ 24 KILOMETERS

CRISIUM ..... L5
EIMMART ..... J1
MARE ANGUIS ..... H2
MARE PLUTARCH ..... B3
SENECA ..... A1

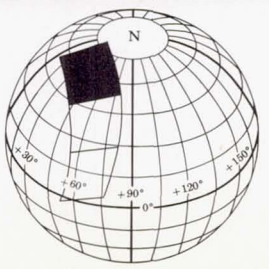
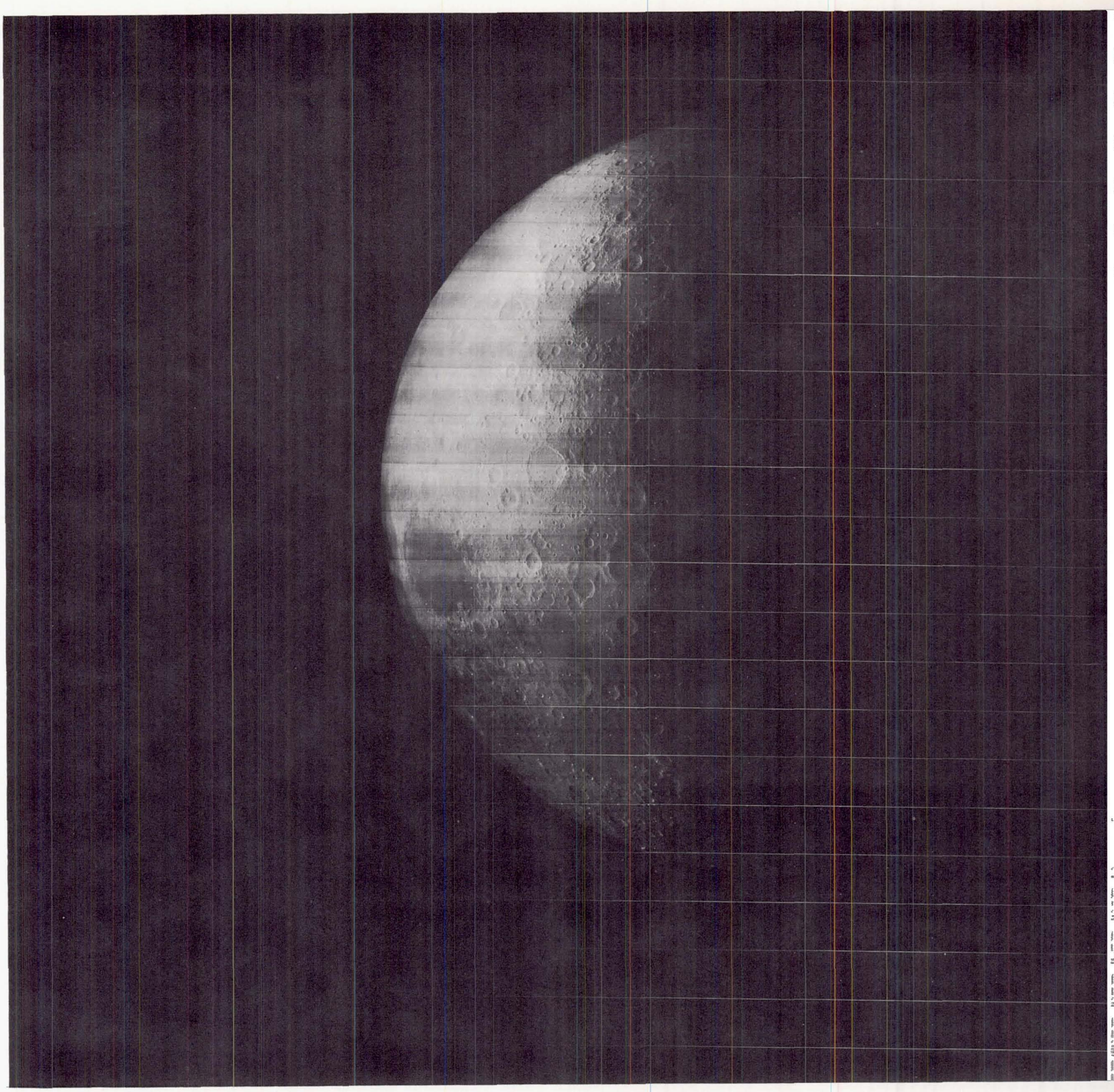
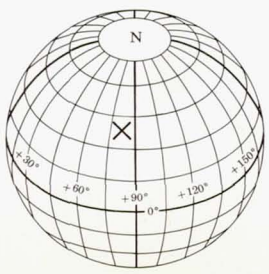



PLATE 516

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE CRISIUM ..... E7
MARE FECUNDITATIS ..... F8
MARE HUMBOLDTIANUM .... G4

1 CENTIMETER ≈ 180 KILOMETERS

N

PHOTO NO. IV-165-M

CENTER COORDINATES ..... LONG. 81.13
LAT. 38.83
NORTH DEVIATION (DEG.) ..... 190.78
SUN ANGLE ..... 76.1
SPACECRAFT ALTITUDE (KM) ..... 5486.53

PLATE 517

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. IV-165-H1

ENTER COORDINATES ..... LONG. 81.13
LAT. 38.84
ORTH DEVIATION (DEG.) ..... 190.78
UN ANGLE ..... 76.1
PACECRAFT ALTITUDE (KM) ..... 5486.51

N

1 CENTIMETER ≈ 24 KILOMETERS

ENDYMION ..... L13
HAYN ..... A9
MARE HUMBOLDTIA-
NUM ..... C13

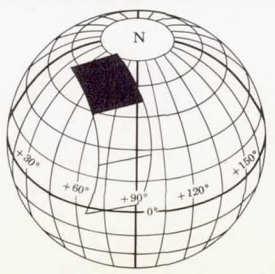
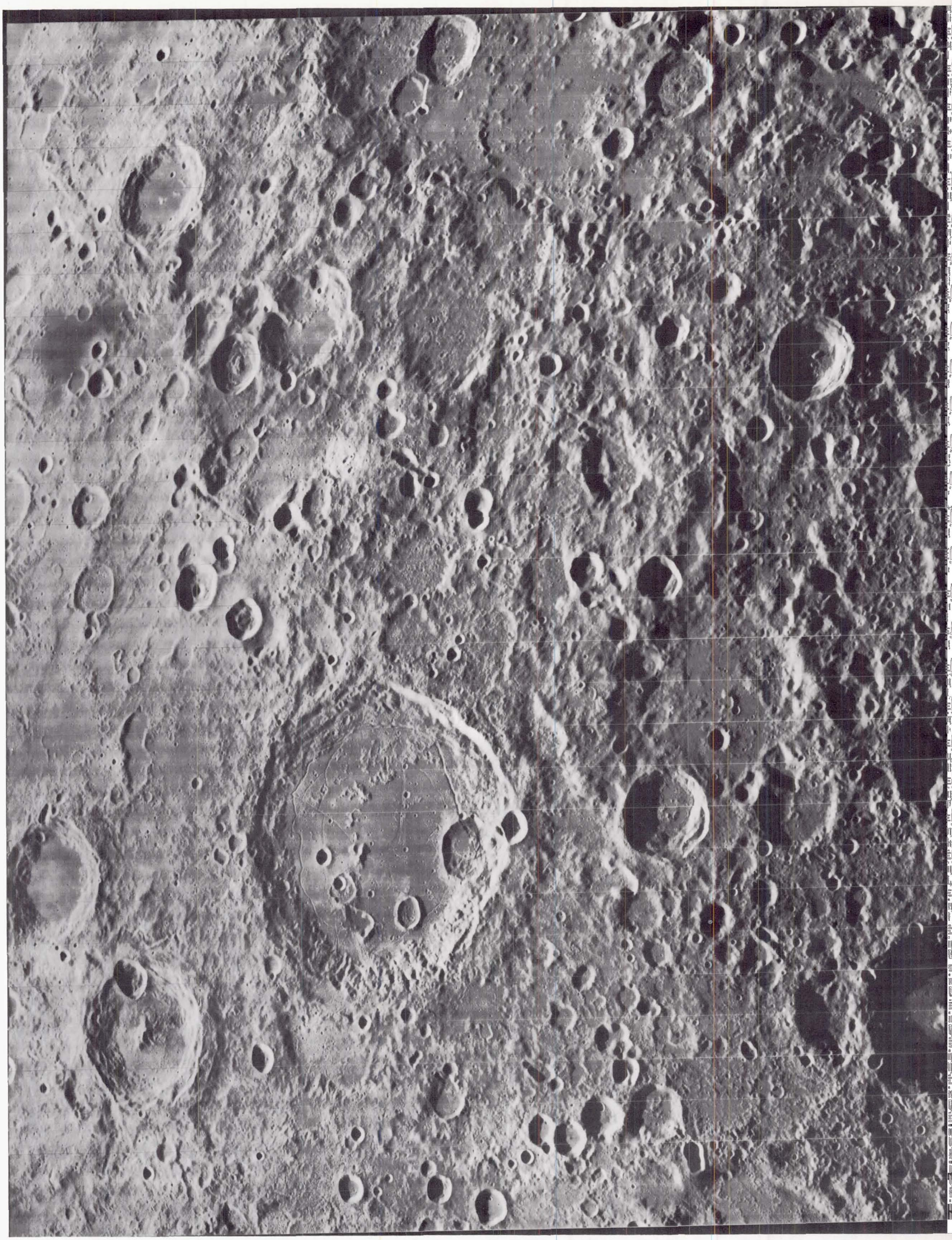
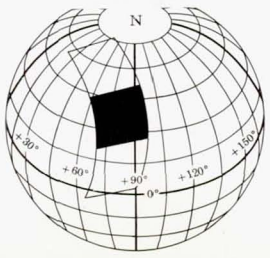



PLATE 518

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






BOSS ..... K5
BEROSUS .... A12
GAUSS ..... E11
HAHN ..... B13

1 CENTIMETER ≈ 24 KILOMETERS

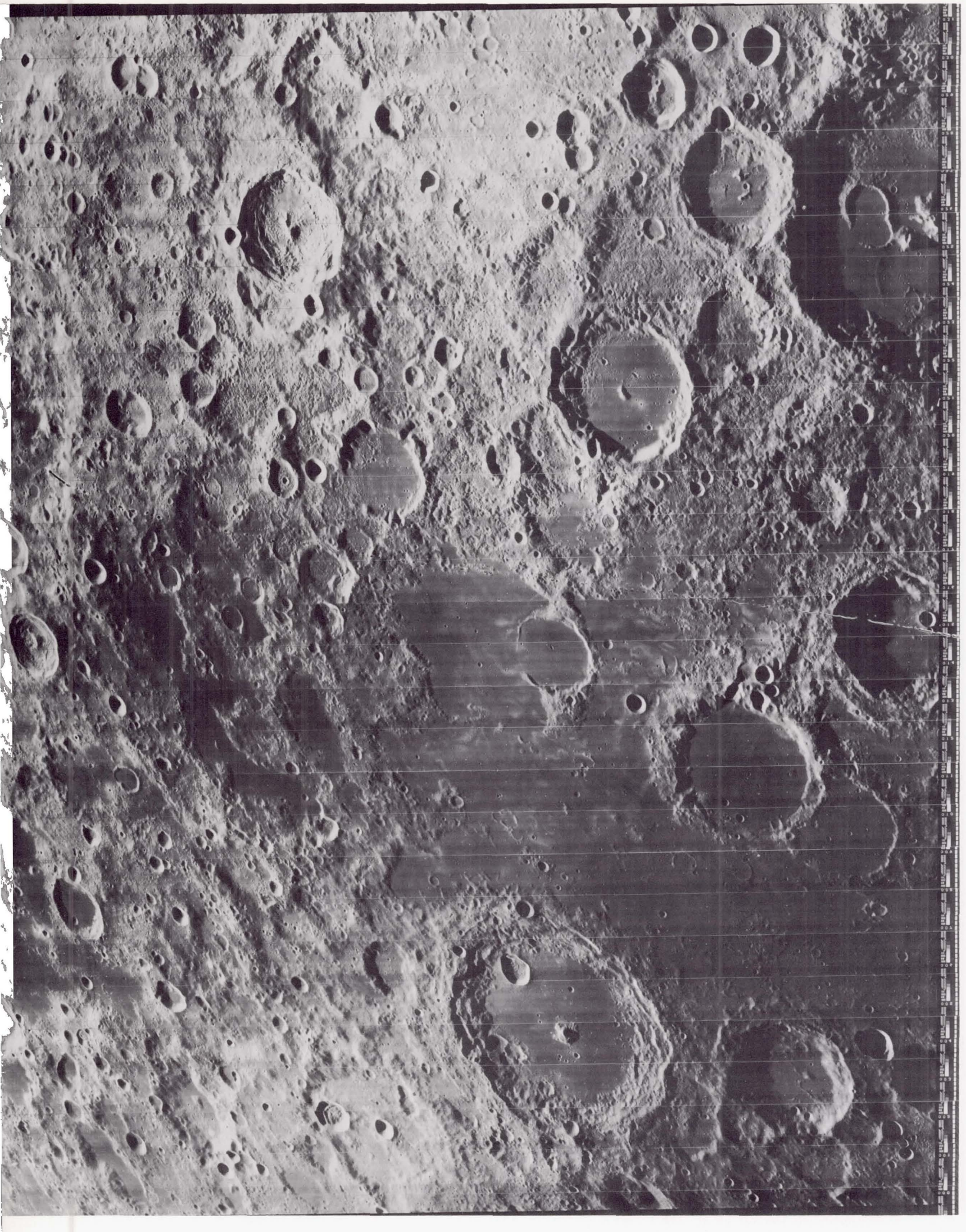
N

PHOTO NO. IV-165-H2

CENTER COORDINATES ..... LONG. 81.
LAT. 38.
NORTH DEVIATION (DEG.) ..... 190.
SUN ANGLE ..... 76
SPACECRAFT ALTITUDE (KM) ..... 5486.

PLATE 519

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

*PHOTO NO IV-165-H3*

NTER COORDINATES ..... LONG. 81.13
LAT. 38.84
RTH DEVIATION (DEG.) ..... 190.78
N ANGLE ..... 76.1
ACECRAFT ALTITUDE (KM) ..... 5486.51

N

1 CENTIMETER ≈ 24 KILOMETERS

GODDARD ..... C10
HUBBLE ..... E5
JANSKY ..... C14
JOLIOT-CURIE .... A3
LIAPUNOV..... C3
NEPER ..... E13
PLUTARCH ..... J3
SENECA ..... H2

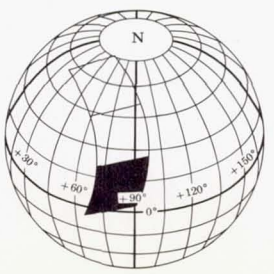
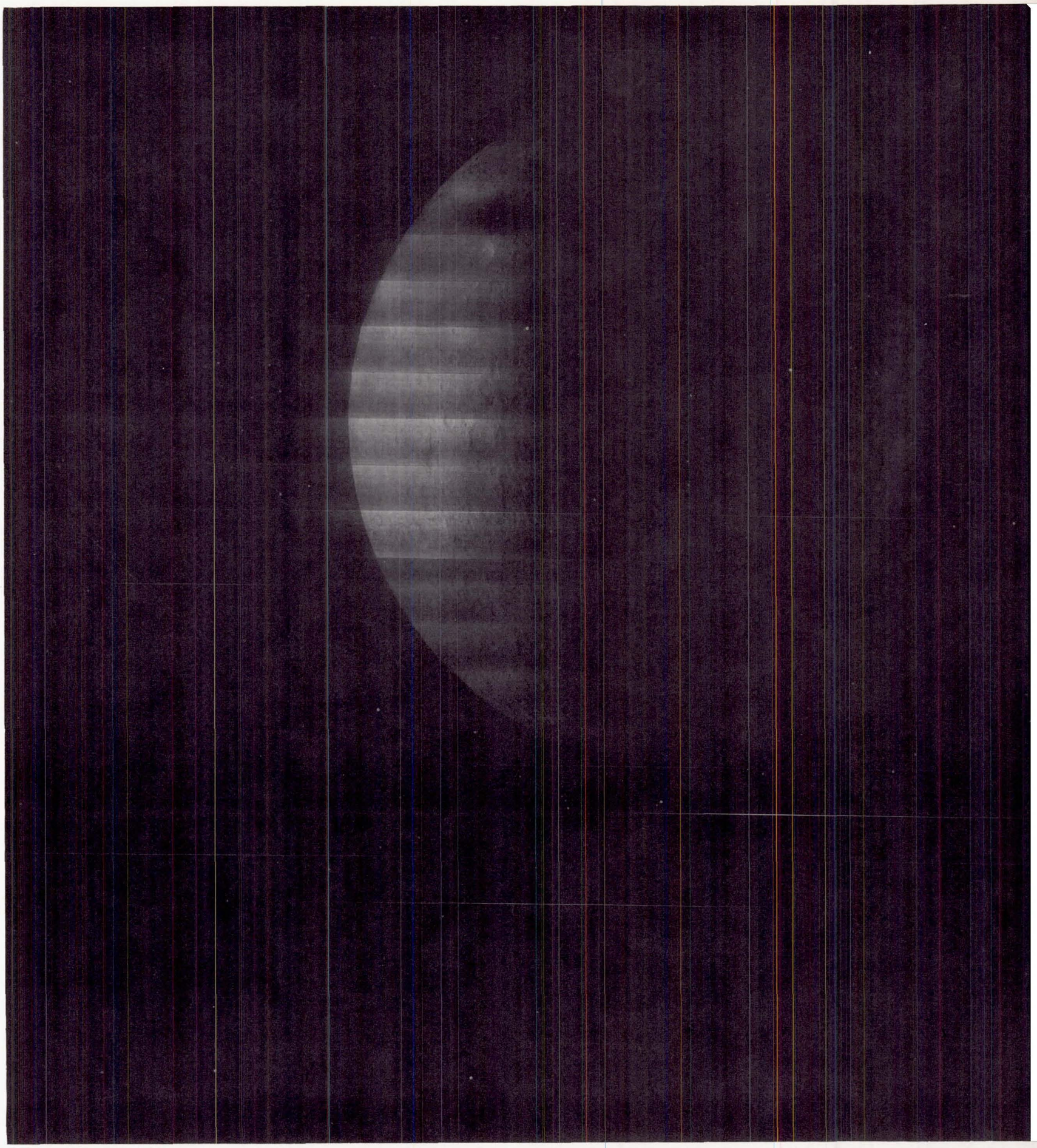
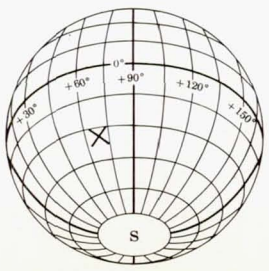



PLATE 520

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE FECUNDITATIS .... F3

1 CENTIMETER ≈ 187 KILOMETERS

N

PHOTO NO. IV-184-M

CENTER COORDINATES ..... LONG. 69.3
LAT. −35.1
NORTH DEVIATION (DEG.) ..... 174.8
SUN ANGLE ..... 83.
SPACECRAFT ALTITUDE (KM) .... 5790.1

PLATE 521

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

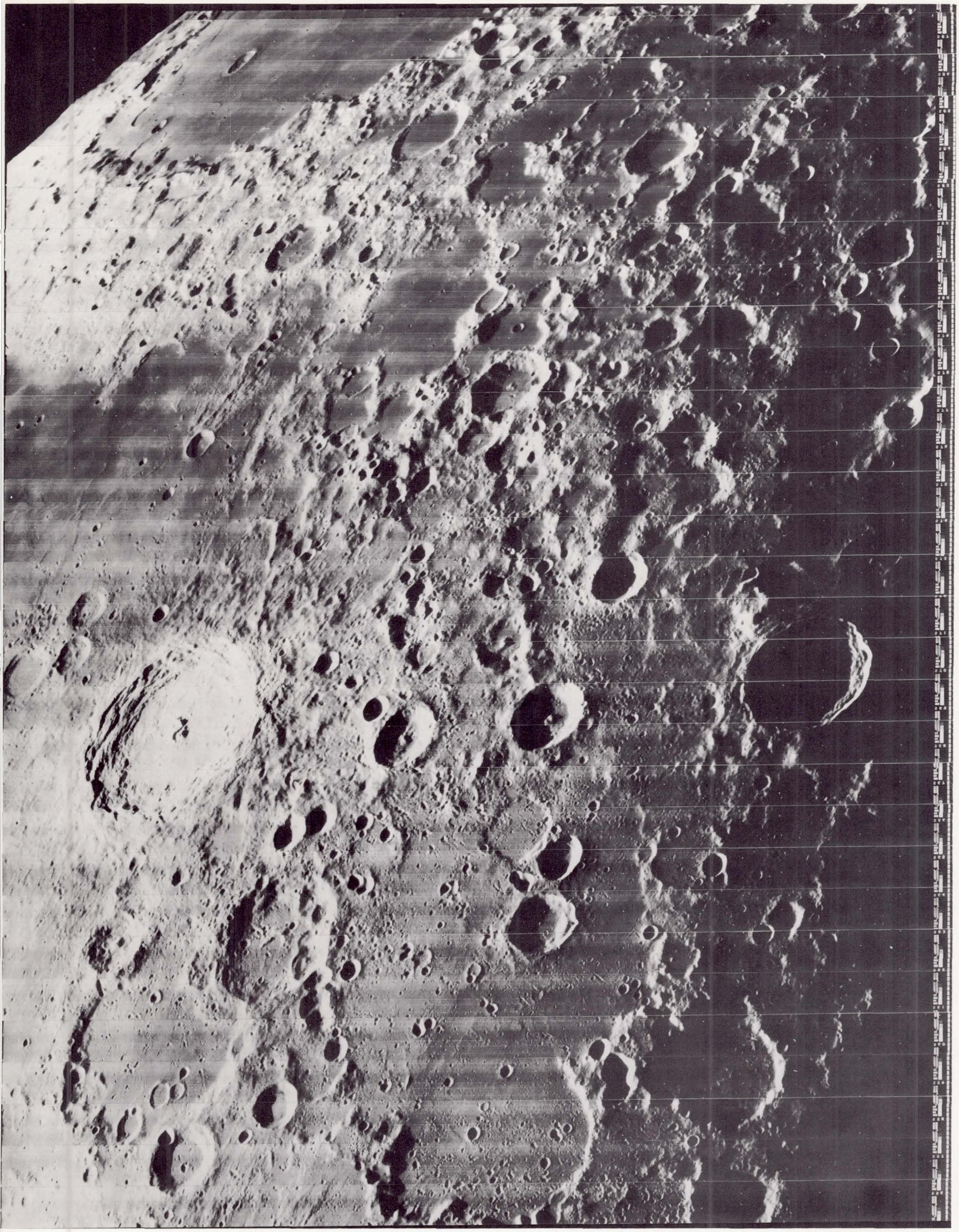


PHOTO NO. IV-184-H1

CENTER COORDINATES ..... LONG. 69.32
LAT. −35.18
NORTH DEVIATION (DEG.) .....174.87
SUN ANGLE .....83.1
SPACECRAFT ALTITUDE (KM) .....5790.16

N

1 CENTIMETER ≈ 25 KILOMETERS

BALMER .....F15
KAPTEYN .....E9
LAME .....J12
LANGRENUS .....K10
LA PEROUSE .....B9
VENDELINUS ....K14
WEBB .....K6

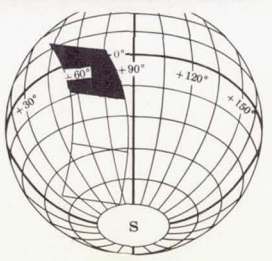
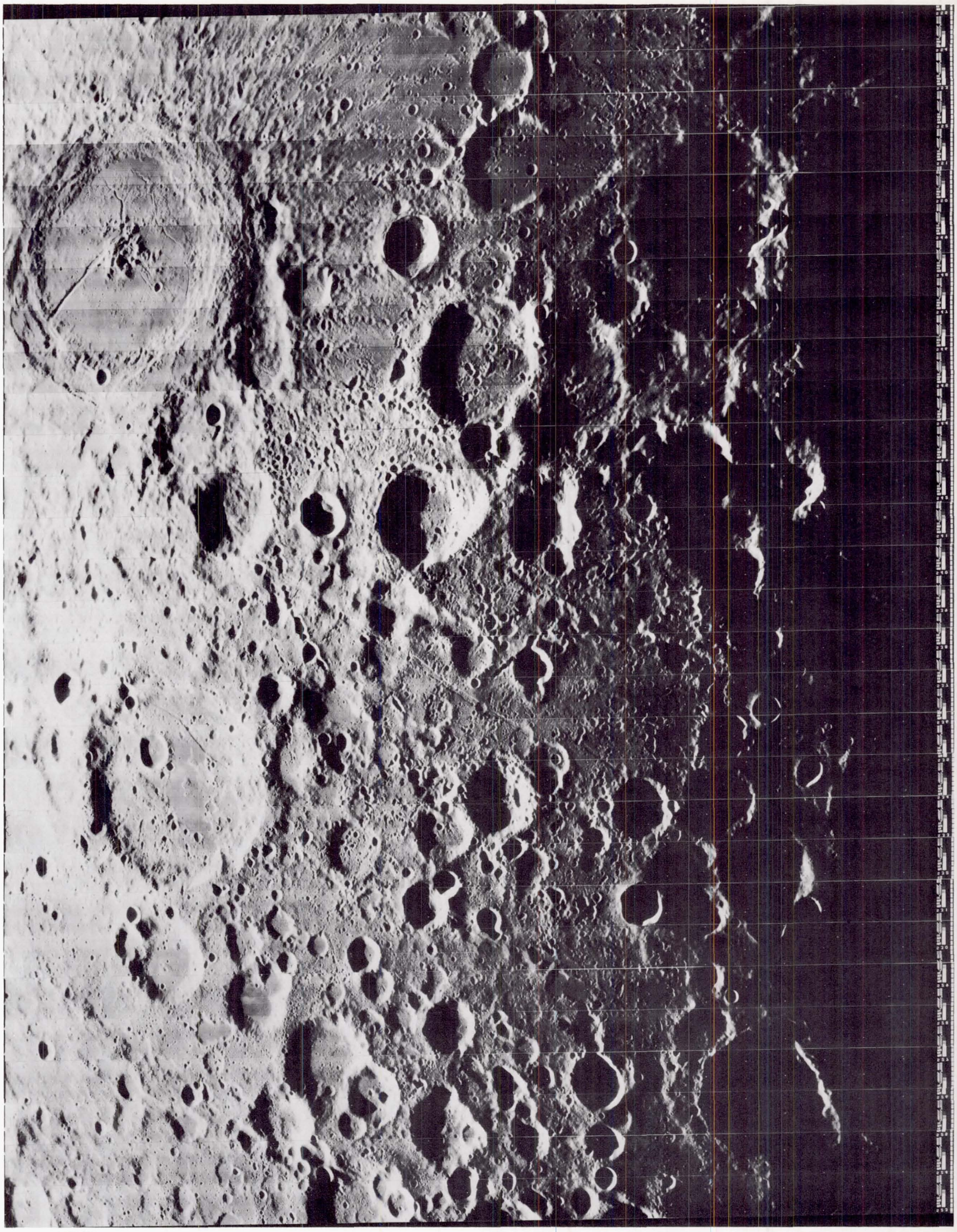
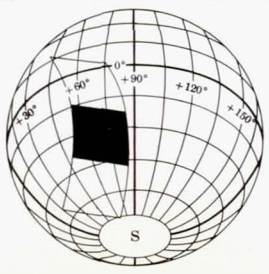



PLATE 522

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






| | |
|---|---|
| ADAMS | F7 |
| HASE | C6 |
| LEGENDRE | G5 |
| MARINUS | K11 |
| OKEN | K14 |
| PETAVIUS | B4 |
| PHILLIPS | J3 |
| VEGA | E16 |

1 CENTIMETER ≈ 27 KILOMETERS

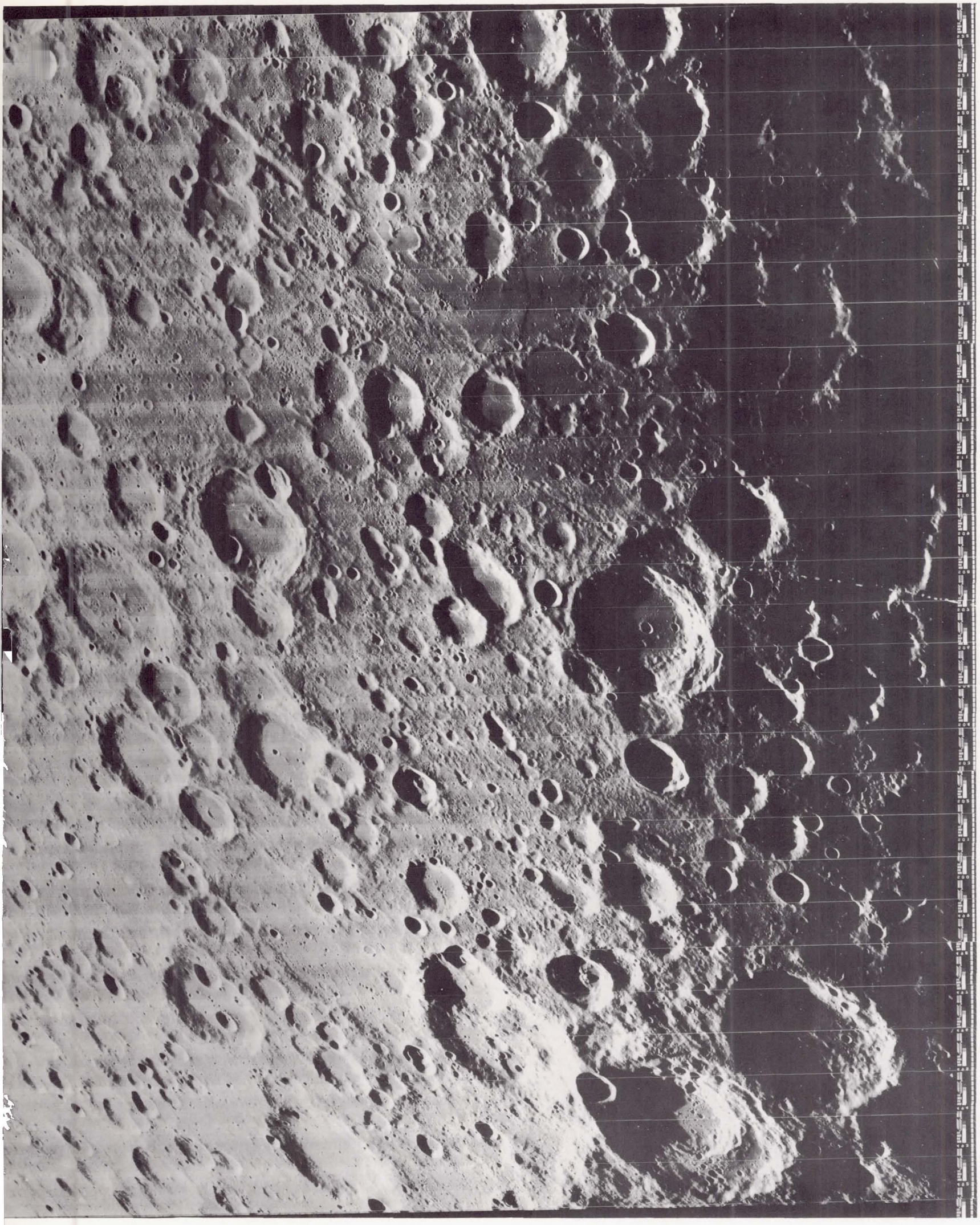
N

PHOTO NO. IV-184-H2

| | |
|---|---|
| CENTER COORDINATES | LONG. 69.3 |
| | LAT. −35.1 |
| NORTH DEVIATION (DEG.) | 174.8 |
| SUN ANGLE | 83. |
| SPACECRAFT ALTITUDE (KM) | 5790.1 |

PLATE 523

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-184-H3

NTER COORDINATES ..... LONG. 69.32
LAT. −35.18
RTH DEVIATION (DEG.) ..... 174.87
N ANGLE ..... 83.1
ACECRAFT ALTITUDE (KM) ..... 5790.16

N

1 CENTIMETER ≈ 27 KILOMETERS

BOUSSINGAULT ... D14
BRISBANE ..... E2
HANNO ..... C7
PEIRESCIUS ..... F1
PONTECOULANT ... D8
VEGA ..... H1

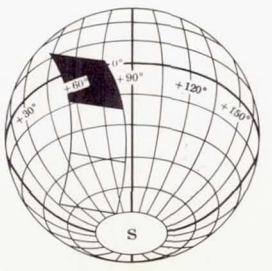
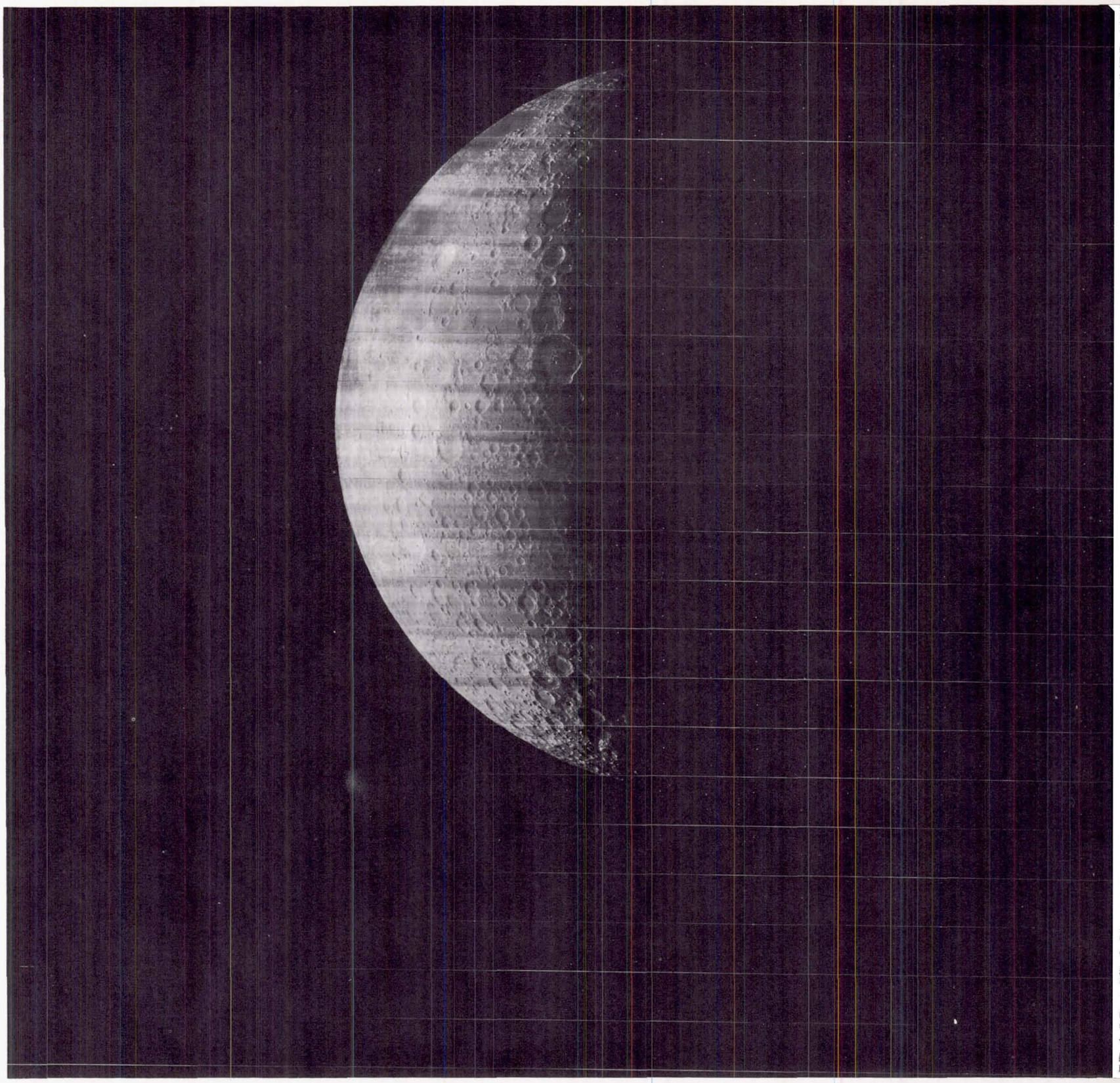
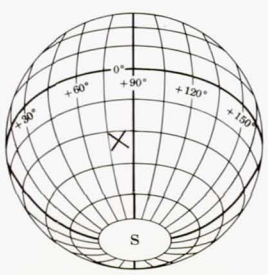



PLATE 524

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






ANSGARIUS ..... F3
HELMHOLTZ ..... F7
HUMBOLDT ..... F4
MARE CRISIUM ..... F2

1 CENTIMETER ≈ 186 KILOMETERS

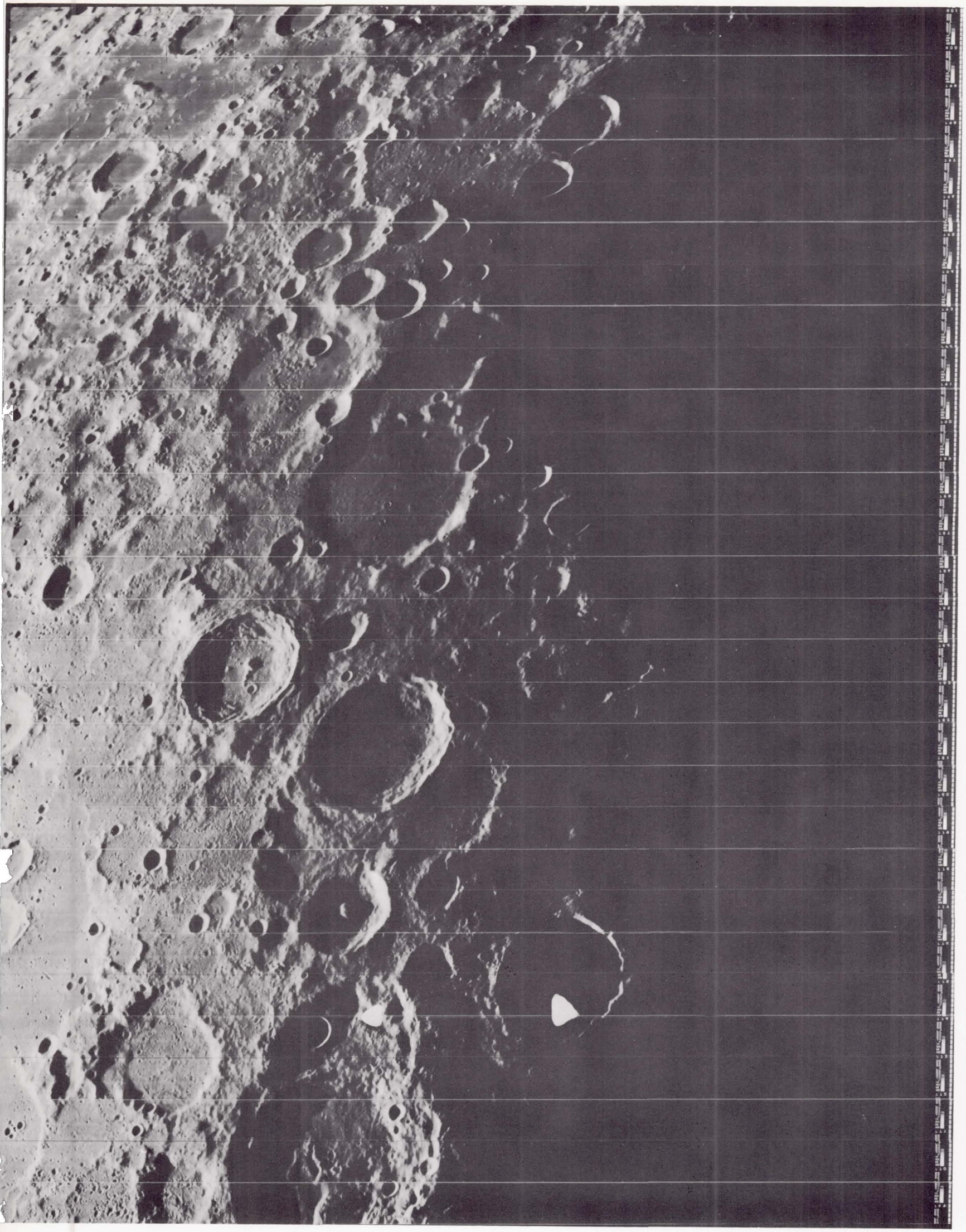
N

PHOTO NO. IV-178-M

CENTER COORDINATES ..... LONG. 82.
LAT. −33.
NORTH DEVIATION (DEG.) ..... 17
SUN ANGLE ..... 8
SPACECRAFT ALTITUDE (KM) .....5796.

PLATE 525

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-178-H1

ENTER COORDINATES ..... LONG. 82.21
LAT. −33.87
ORTH DEVIATION (DEG.) ..... 179.0
UN ANGLE ..... 88.5
PACECRAFT ALTITUDE (KM) .... 5796.24

N

1 CENTIMETER ≈24 KILOMETERS

ANSGARIUS .. H10
BEHAIM .... G13
GIBBS ..... E13
GILBERT ..... J5
HECATAEUS . H15
KÄSTNER .... G6
LA PÉROUSE .. J9

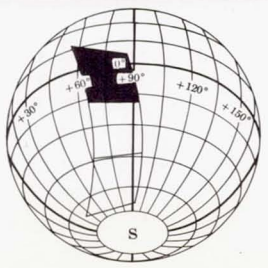
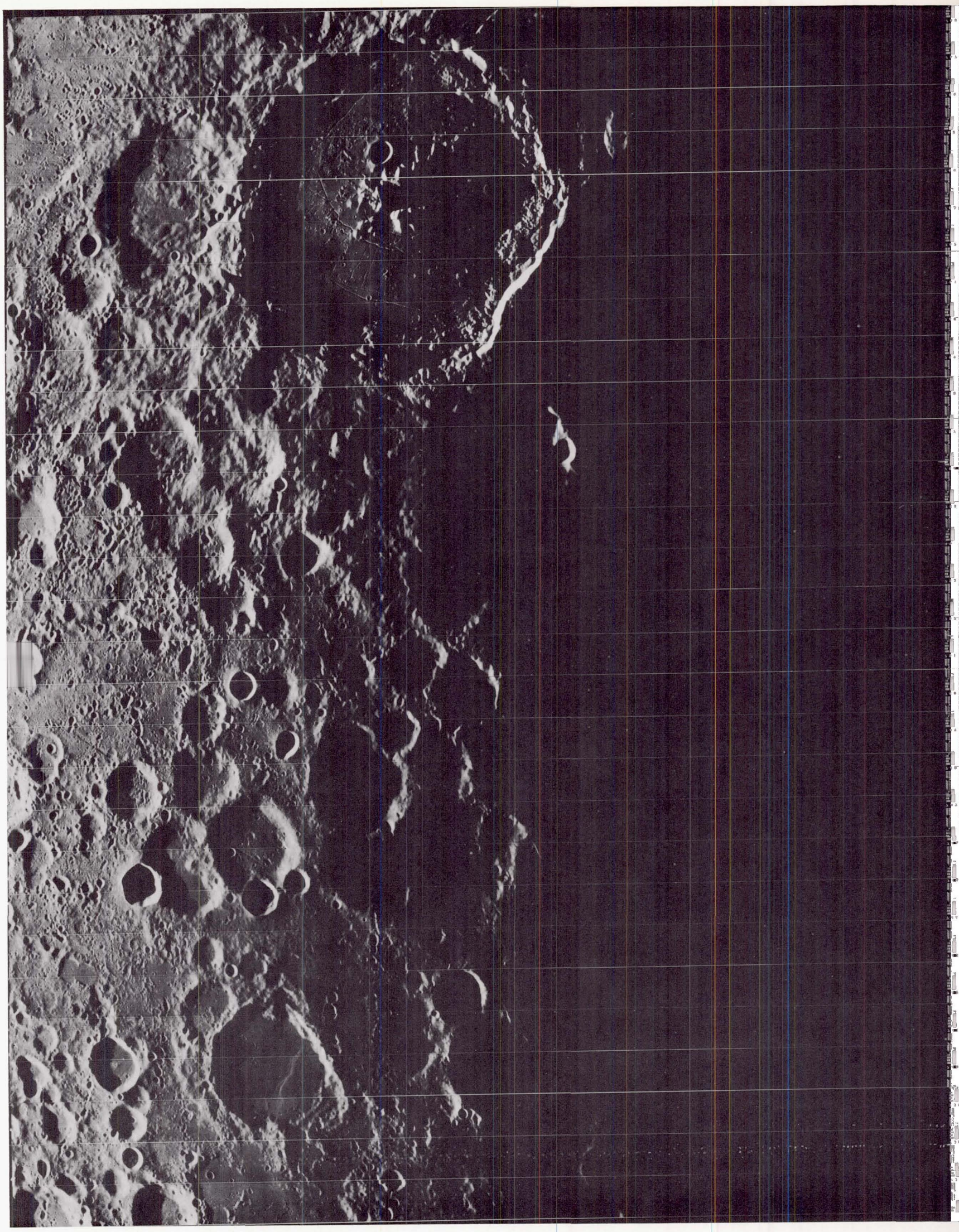
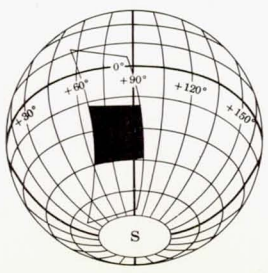



PLATE 526

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






HUMBOLDT .. E3
MARINUS ... D11
OKEN ..... D14
PHILLIPS .... C3

1 CENTIMETER ≈ 24 KILOMETERS

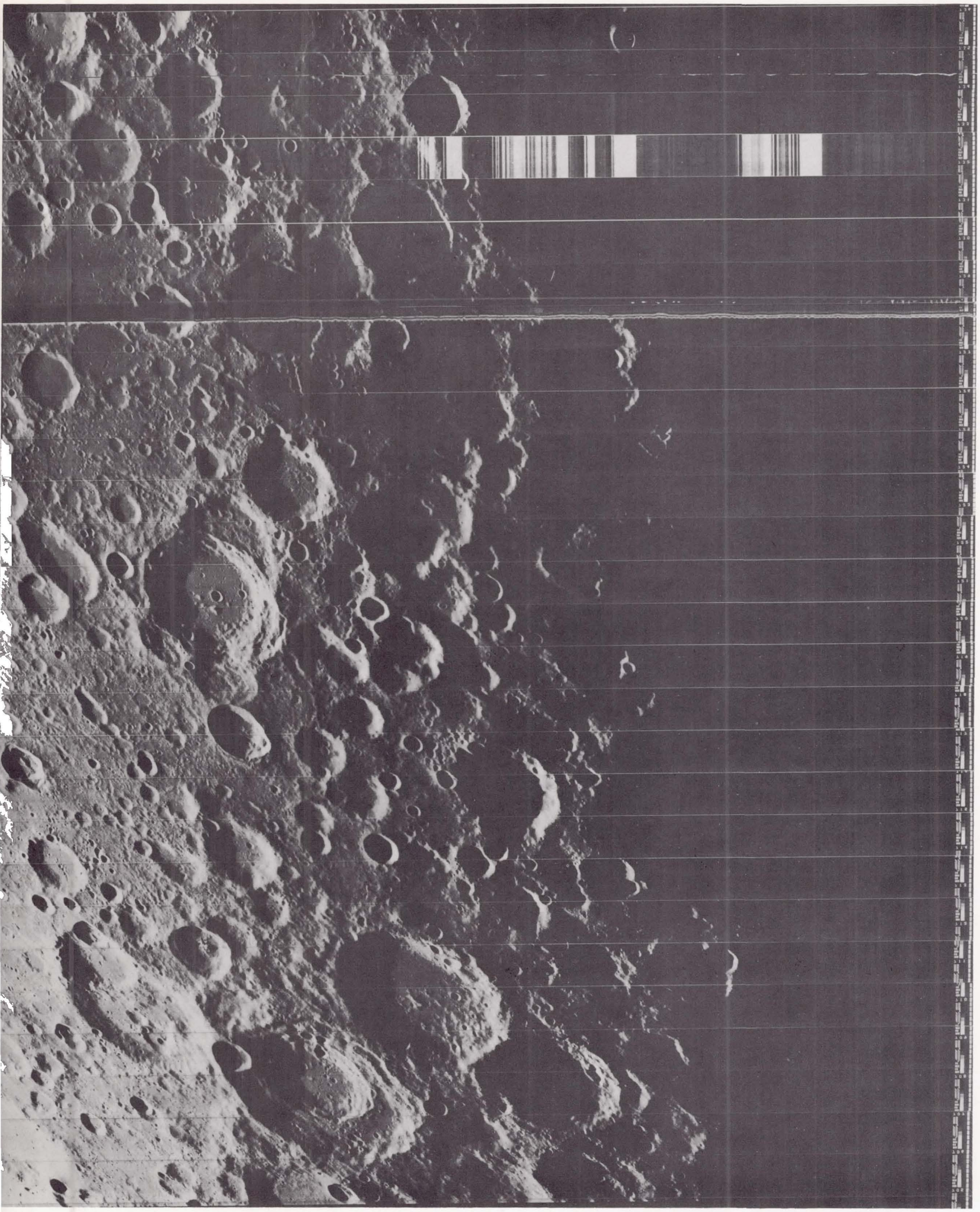
N

PHOTO NO. IV-178-H2

CENTER COORDINATES ..... LONG. 82.2
LAT. – 33.8
NORTH DEVIATION (DEG.) ..... 179.
SUN ANGLE ..... 88.
SPACECRAFT ALTITUDE (KM) ..... 5796.2

PLATE 527

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-178-H3
CENTER COORDINATES ..... LONG. 82.21
LAT. −33.87
NORTH DEVIATION (DEG.) ..... 179.0
SUN ANGLE ..... 88.5
SPACECRAFT ALTITUDE (KM) ..... 5796.24

N

1 CENTIMETER ≈ 24 KILOMETERS

BRISBANE ..... L2
HANNO ..... J6
HELMHOLTZ .. G13
PONTÉ-
COULANT .... K8

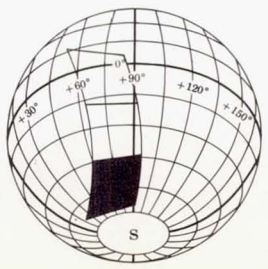
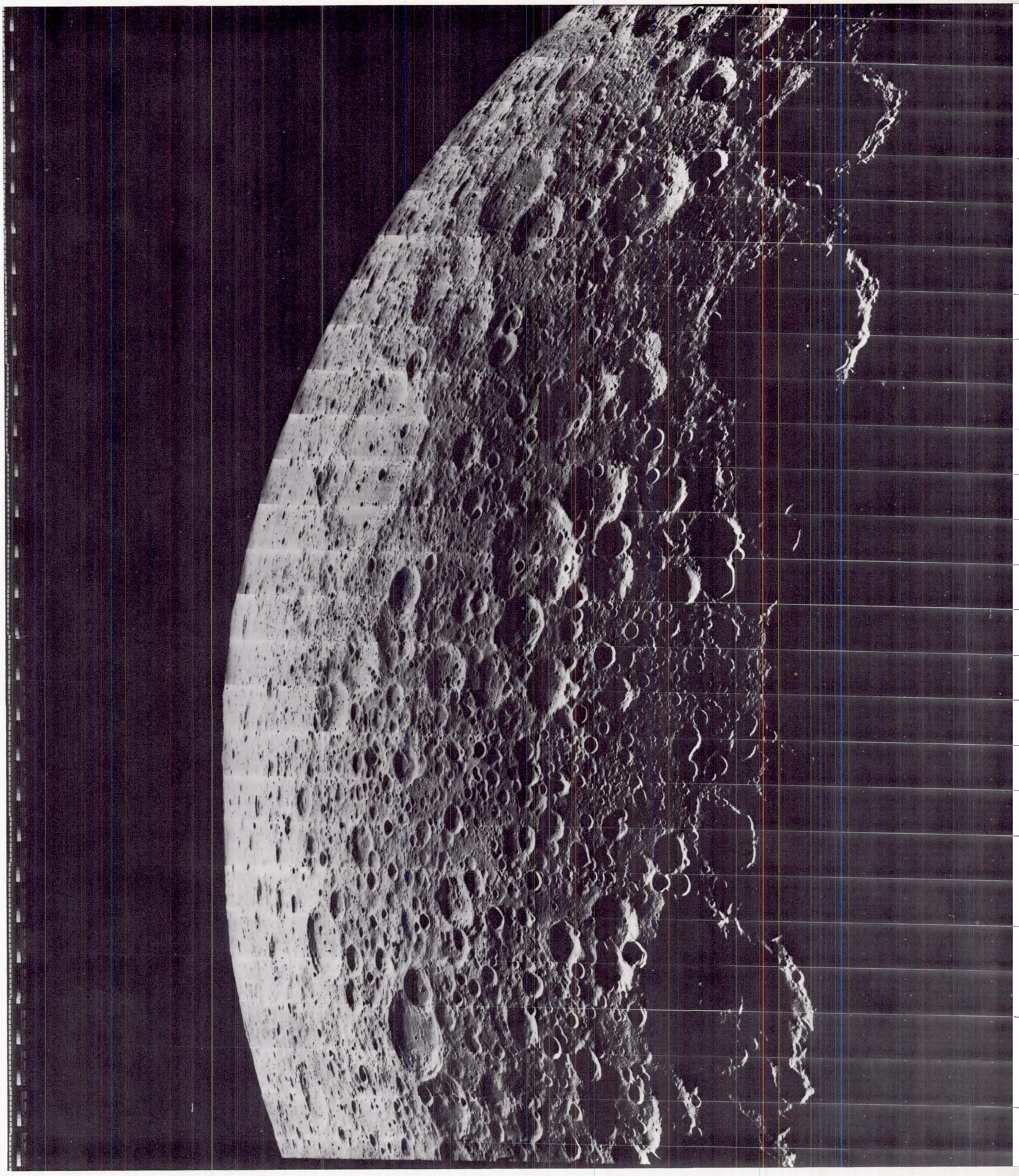
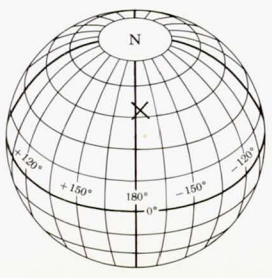



PLATE 528

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 46 KILOMETERS

N

PHOTO NO. V-53-M

CENTER COORDINATES ..... LONG.—176.1
LAT. 48.9
NORTH DEVIATION (DEG.) ..... 12.7
SUN ANGLE ..... 80.
SPACECRAFT ALTITUDE (KM) ..... 1190.5

PLATE 529

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

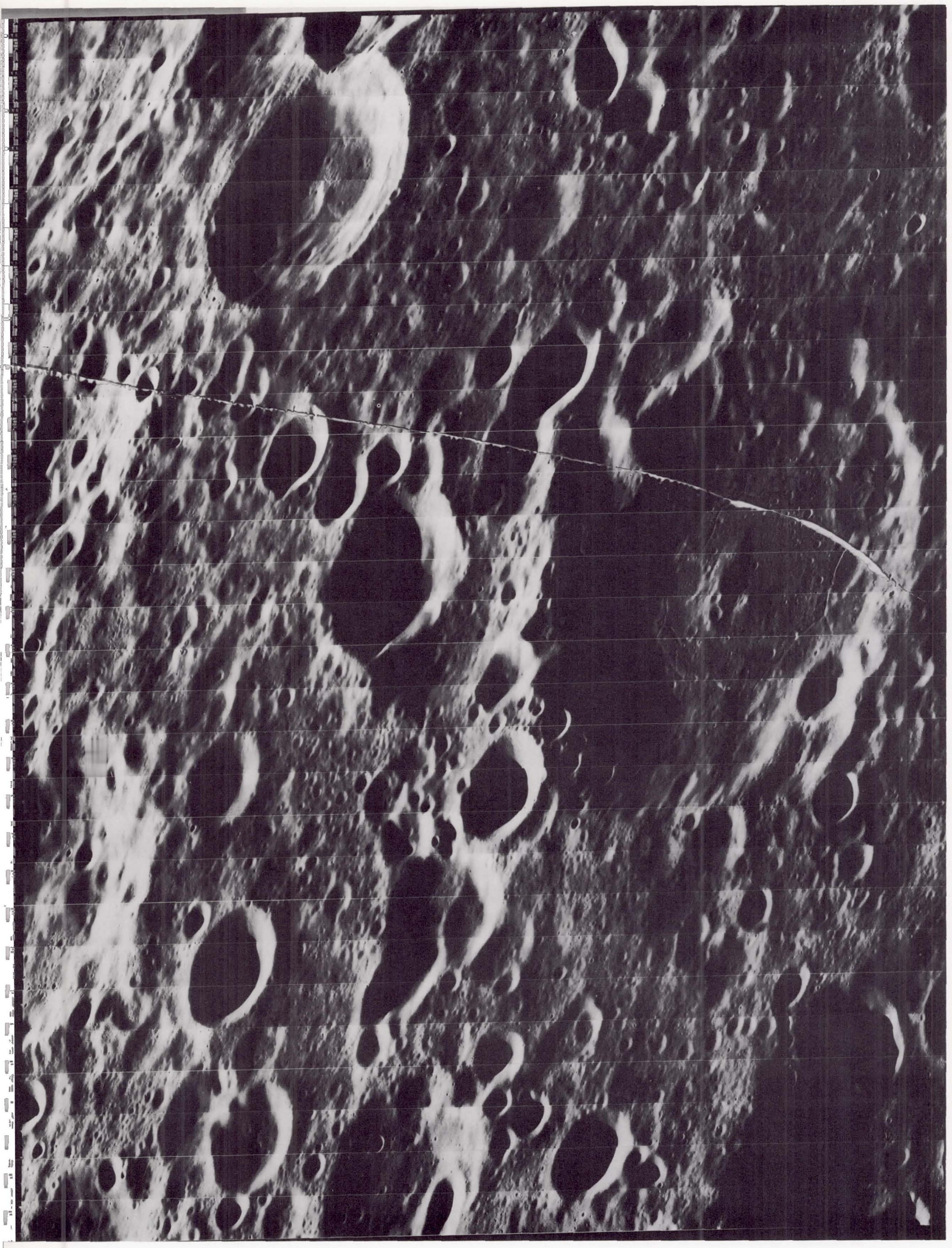


PHOTO NO. V-53-H3

ENTER COORDINATES ..... LONG.—176.10
LAT. 48.85
ORTH DEVIATION (DEG.) ..... 12.64
UN ANGLE ..... 80.8
PACECRAFT ALTITUDE (KM) ..... 1190.50

N

1 CENTIMETER ≈ 6 KILOMETERS

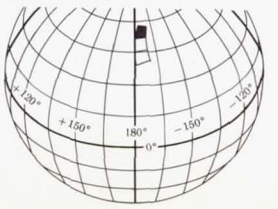
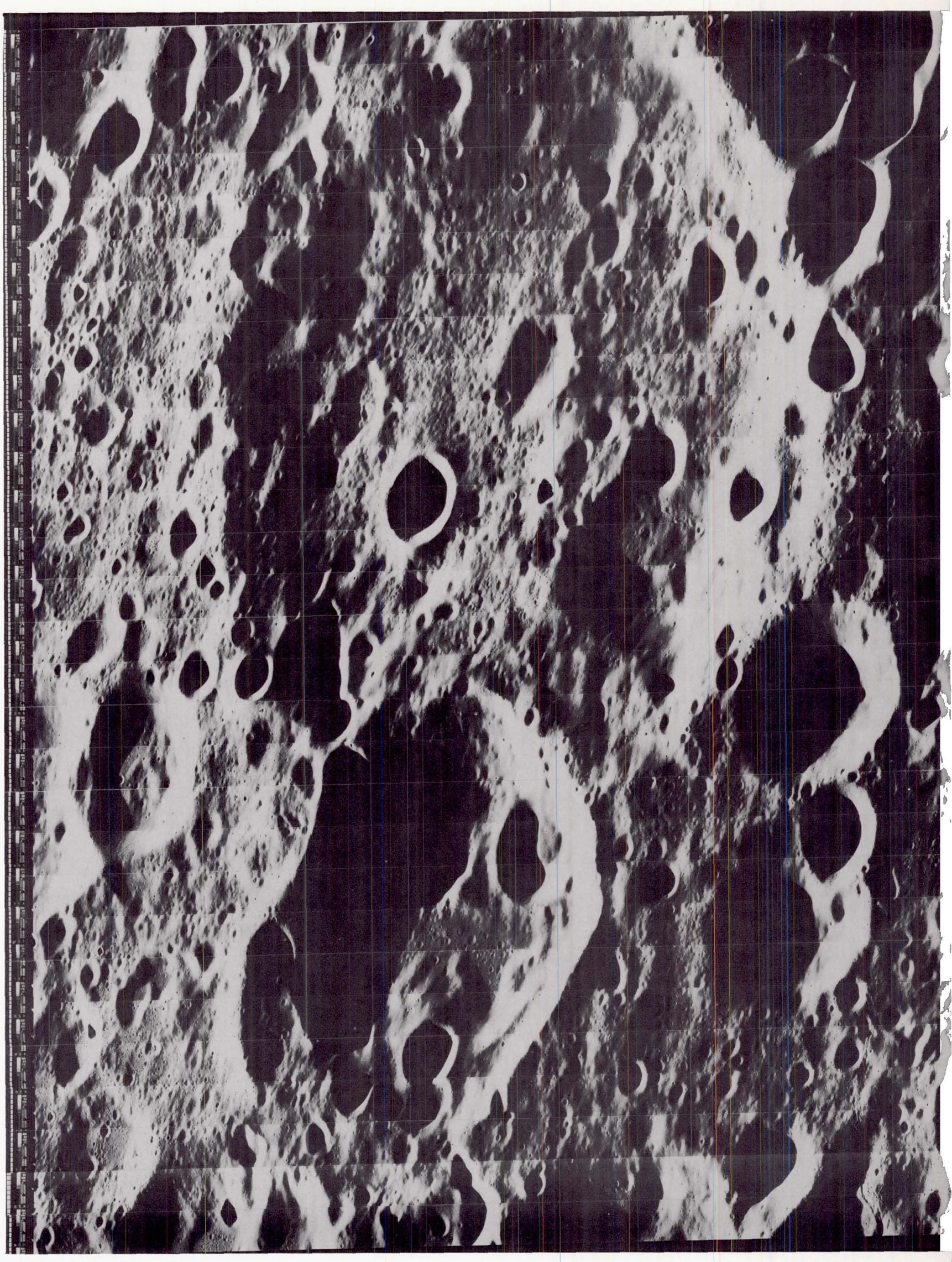
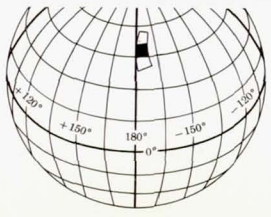



PLATE 530

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. V-53-H2

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | −176.1 |
| | LAT. | 48.8 |
| NORTH DEVIATION (DEG.) ..... | | 12.6 |
| SUN ANGLE ..... | | 80.3 |
| SPACECRAFT ALTITUDE (KM) ..... | | 1190.5 |

PLATE 531

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

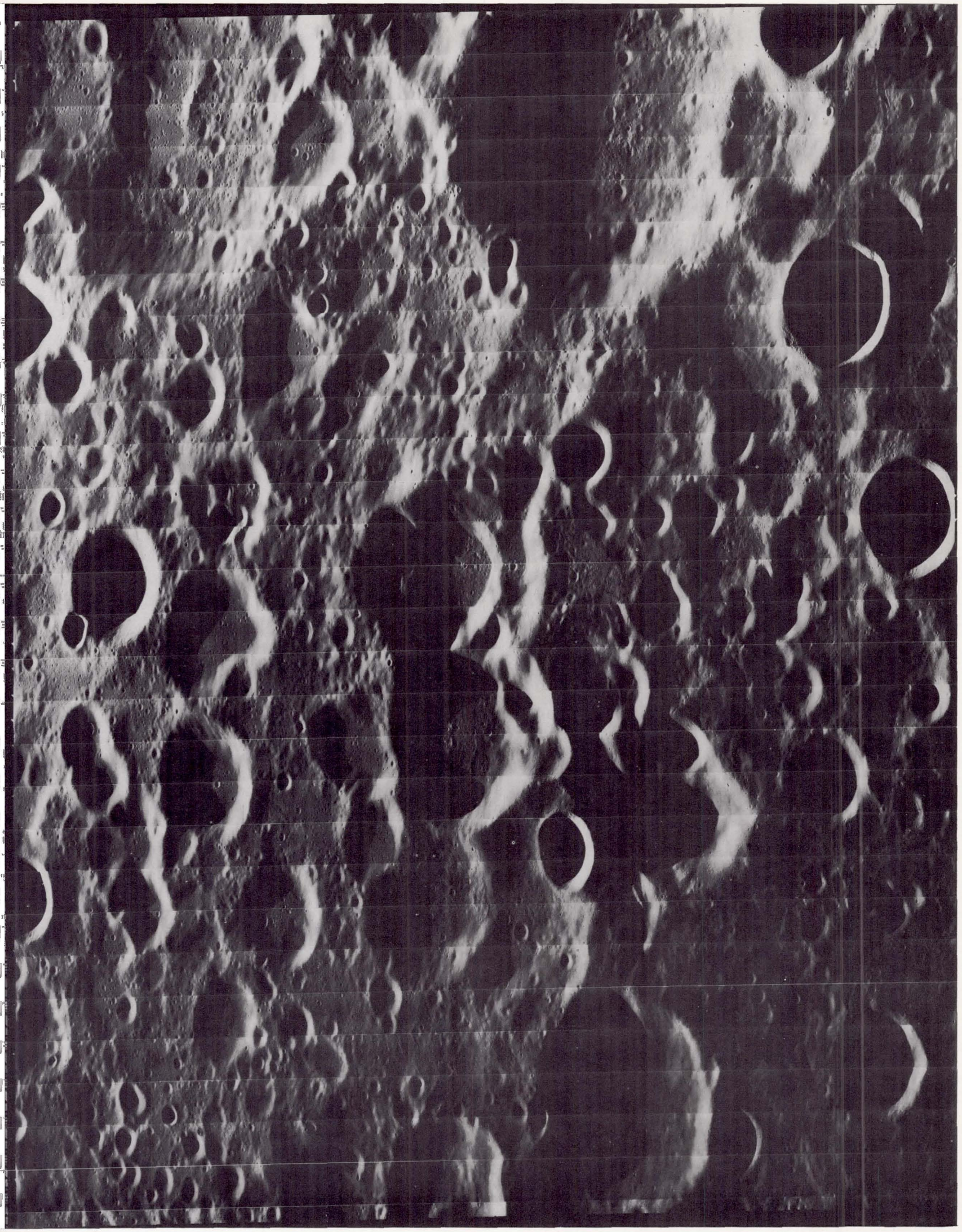


PHOTO NO. V-53-H1

| | | |
|---|---|---|
| CENTER COORDINATES ..... | LONG. | −176.10 |
| | LAT. | 48.85 |
| NORTH DEVIATION (DEG.) ..... | | 12.64 |
| SUN ANGLE ..... | | 80.8 |
| SPACECRAFT ALTITUDE (KM) ..... | | 1190.50 |

N

1 CENTIMETER ≈ 6 KILOMETERS

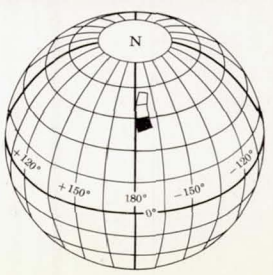
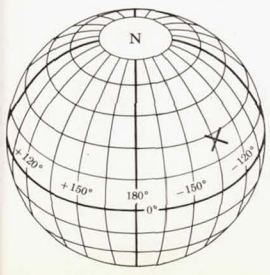



PLATE 532

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 166 KILOMETERS

N

PHOTO NO. V-28-M

CENTER COORDINATES ..... LONG.—133.1
LAT. 26.8
NORTH DEVIATION (DEG.) ..... 1.5
SUN ANGLE ..... 82.
SPACECRAFT ALTITUDE (KM) ..... 5015.4

PLATE 533

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

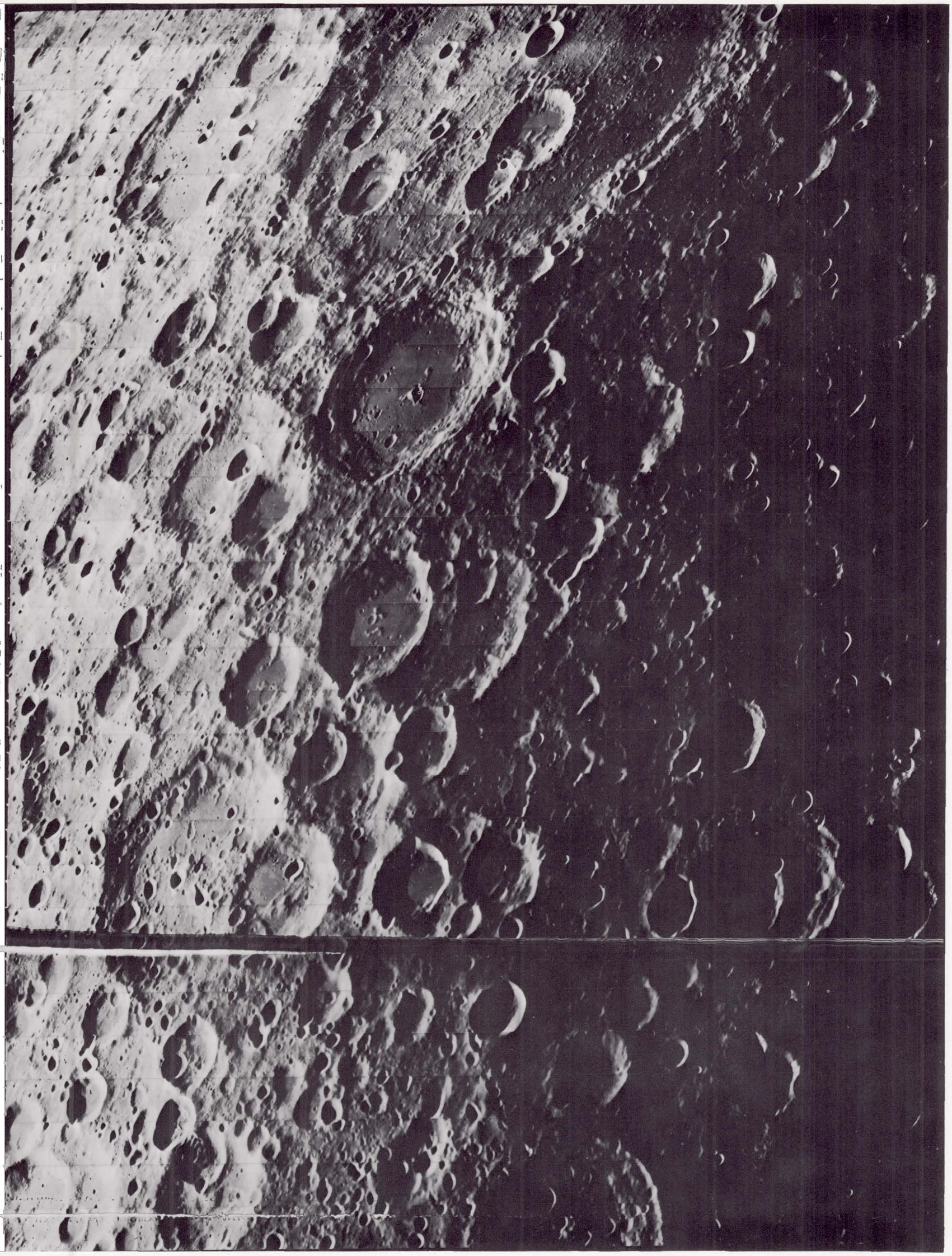


PHOTO NO. V-28-H3

ENTER COORDINATES ..... LONG. —133.19
LAT. .....26.39
ORTH DEVIATION (DEG.) ..... ... 1.29
UN ANGLE ..... 82.1
PACECRAFT ALTITUDE (KM) ..... 5015.44

N

1 CENTIMETER ≈22 KILOMETERS

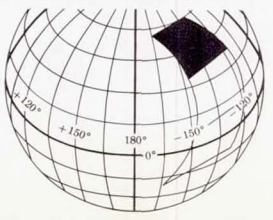
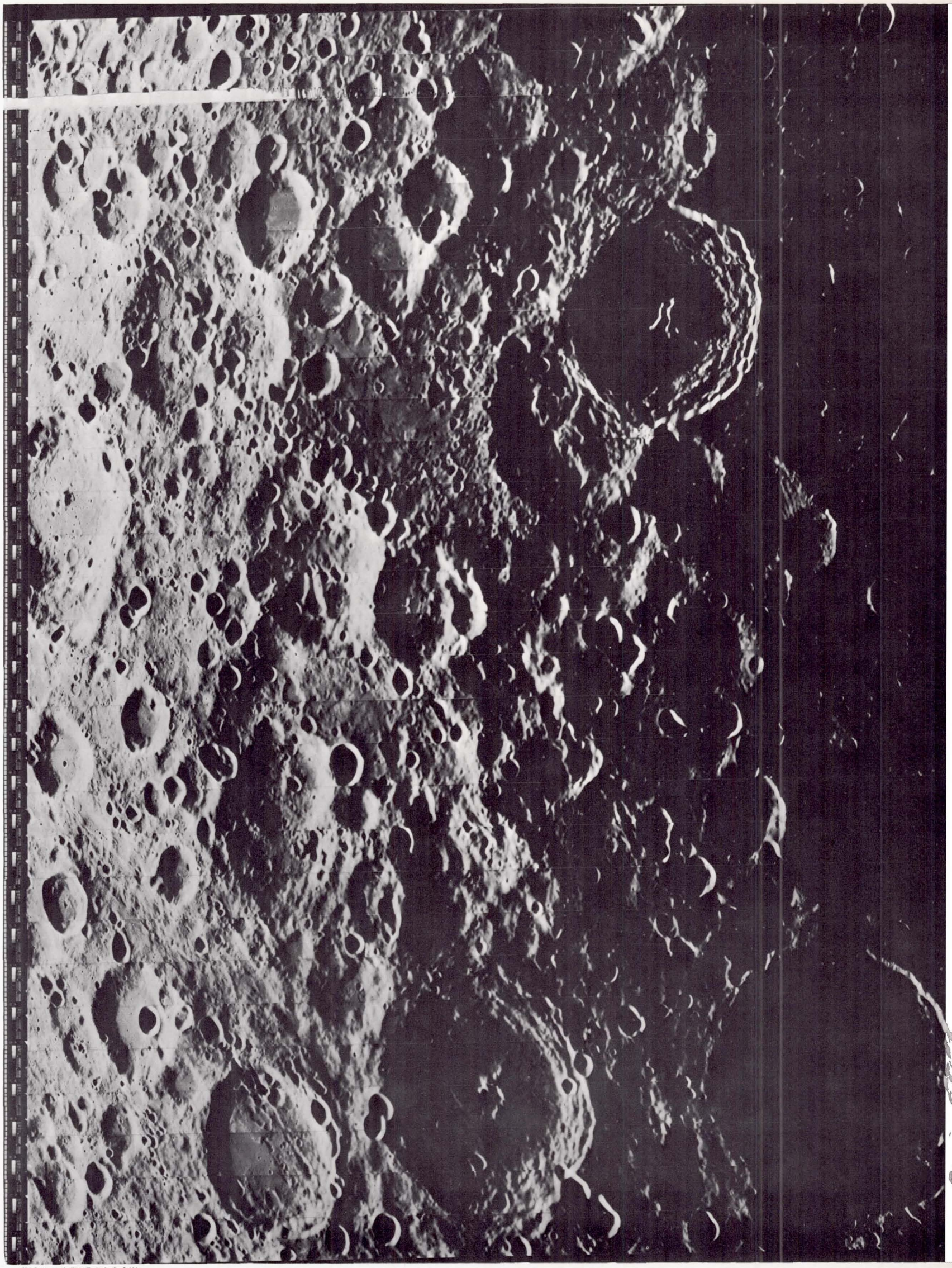
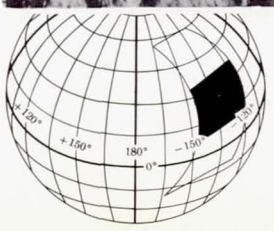



PLATE 534

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 22 KILOMETERS

N

PHOTO NO. V-28-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. —133.1 |
| | LAT. 26.3 |
| NORTH DEVIATION (DEG.) ..... | 1.2 |
| SUN ANGLE ..... | 82. |
| SPACECRAFT ALTITUDE (KM) ..... | 5015.4 |

PLATE 535

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

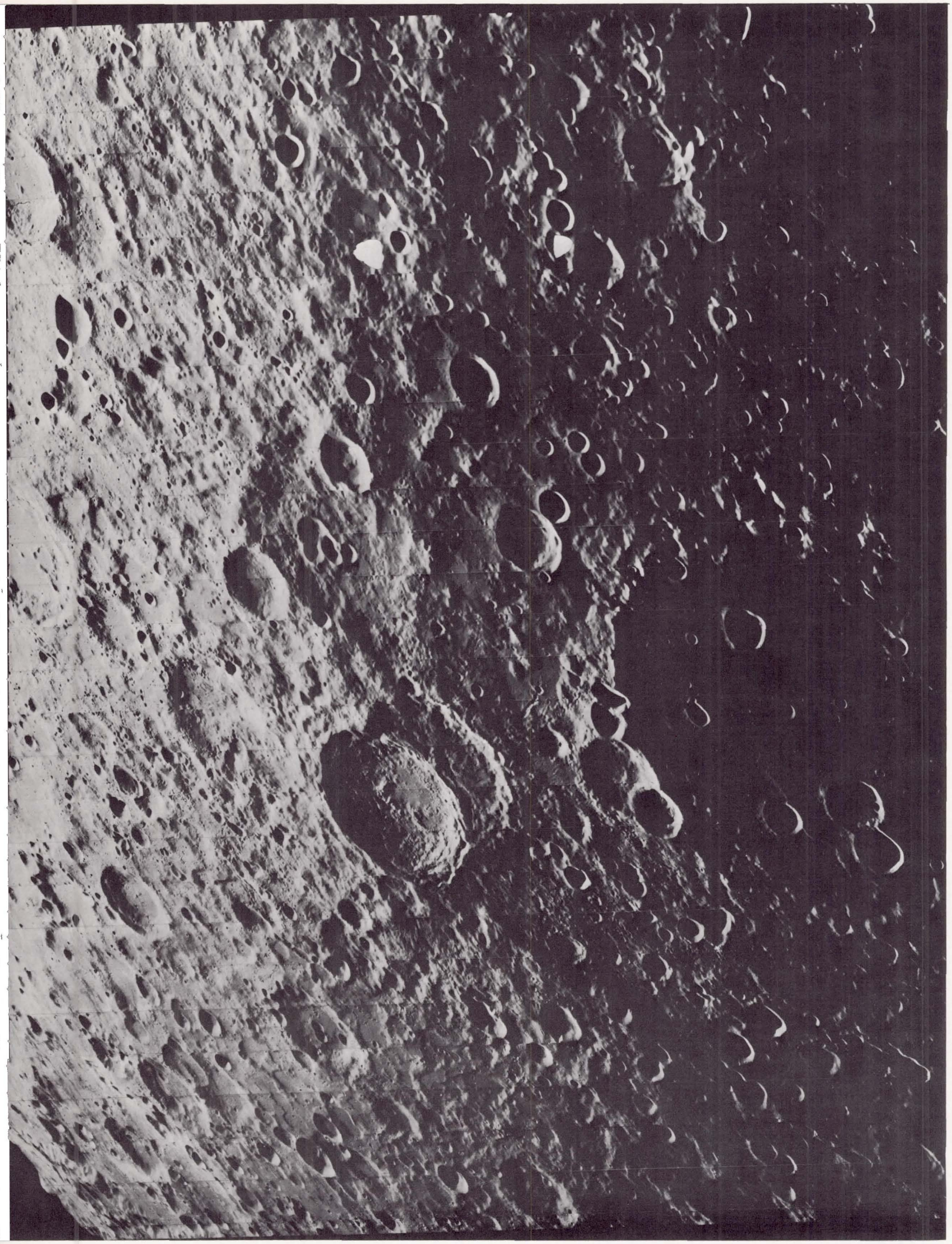


PHOTO NO. V-28-H1

NTER COORDINATES ..... LONG —133.19
LAT ... 26.39
ORTH DEVIATION (DEG.) ..... 1.29
N ANGLE ..... 82.1
ACECRAFT ALTITUDE (KM) ..... 5015.44

N

1 CENTIMETER ≈ 22 KILOMETERS

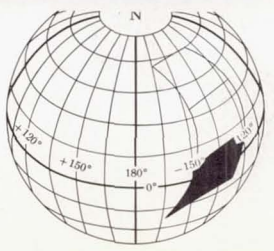
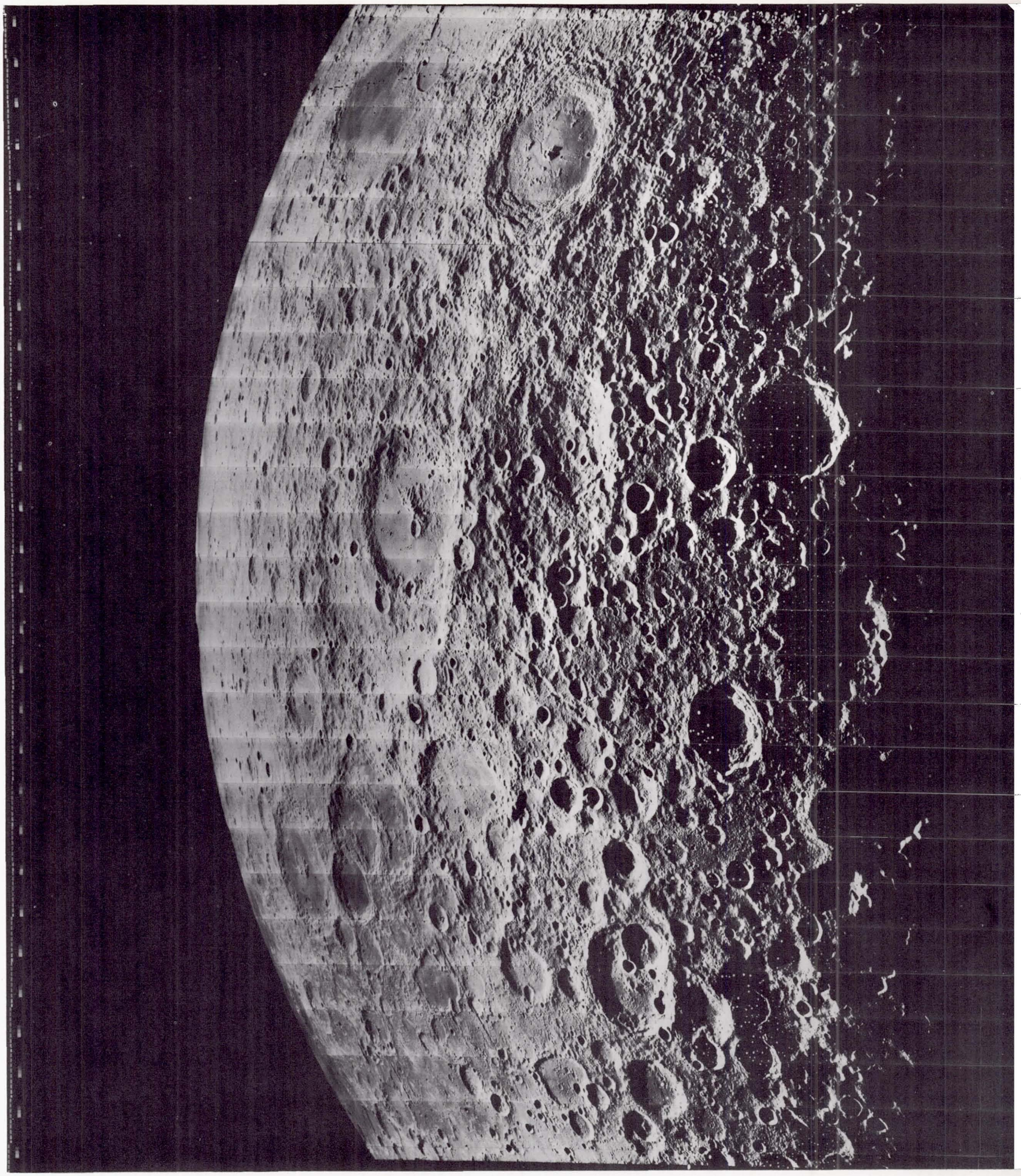
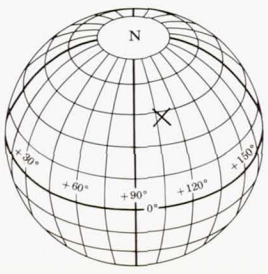



PLATE 536

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE HUMBOLDTIANUM ..... E2

1 CENTIMETER ≈ 44 KILOMETERS

N

PHOTO NO. V-181-M

CENTER COORDINATES ..... LONG. 109.4
LAT. 41.9
NORTH DEVIATION (DEG.) ..... 5.6
SUN ANGLE ..... 78.
SPACECRAFT ALTITUDE (KM) ..... 1181.3

PLATE 537

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-181-H3

ENTER COORDINATES ..... LONG. 109.39
LAT. 41.85
ORTH DEVIATION (DEG.) ..... 5.58
UN ANGLE ..... 78.6
PACECRAFT ALTITUDE (KM) ..... 1181.29

N

1 CENTIMETER ≈ 6 KILOMETERS

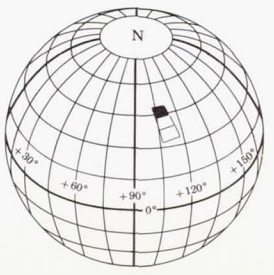
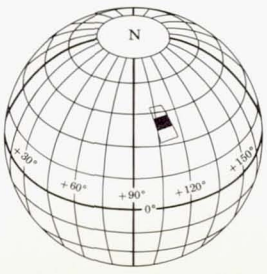



PLATE 538

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. V-181-H2

CENTER COORDINATES ..... LONG. 109.3
LAT. 41.2
NORTH DEVIATION (DEG.) ..... 5.5
SUN ANGLE ..... 78
SPACECRAFT ALTITUDE (KM) ..... 1181.2

PLATE 539

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

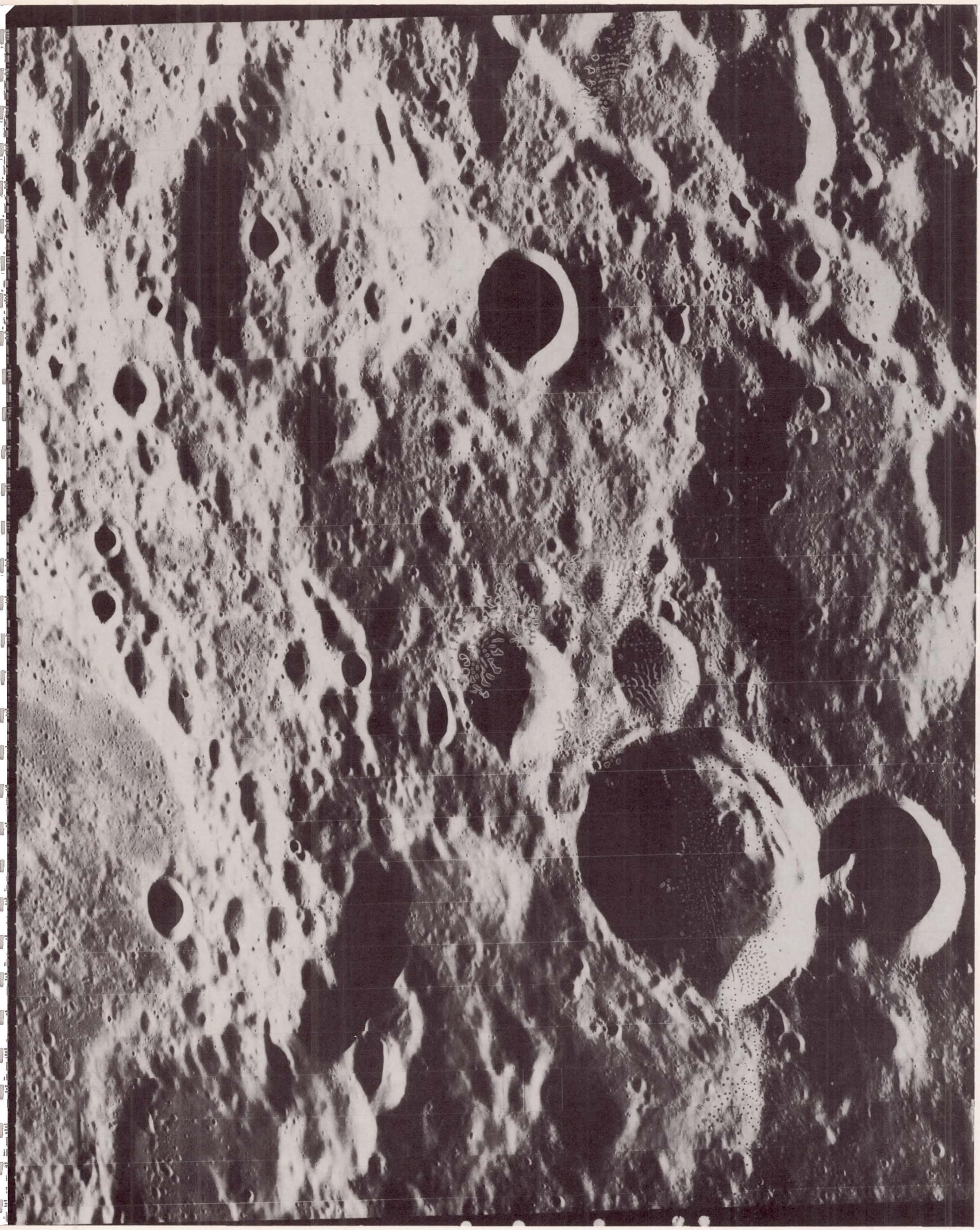


PHOTO NO. V-181-H1

ENTER COORDINATES ..... LONG. 109.39
LAT. 41.85
ORTH DEVIATION (DEG.) ..... 5.58
UN ANGLE ..... 78.6
PACECRAFT ALTITUDE (KM) ..... 1181.29

N

1 CENTIMETER ≈ 6 KILOMETERS

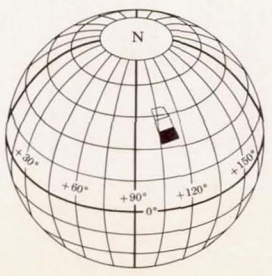
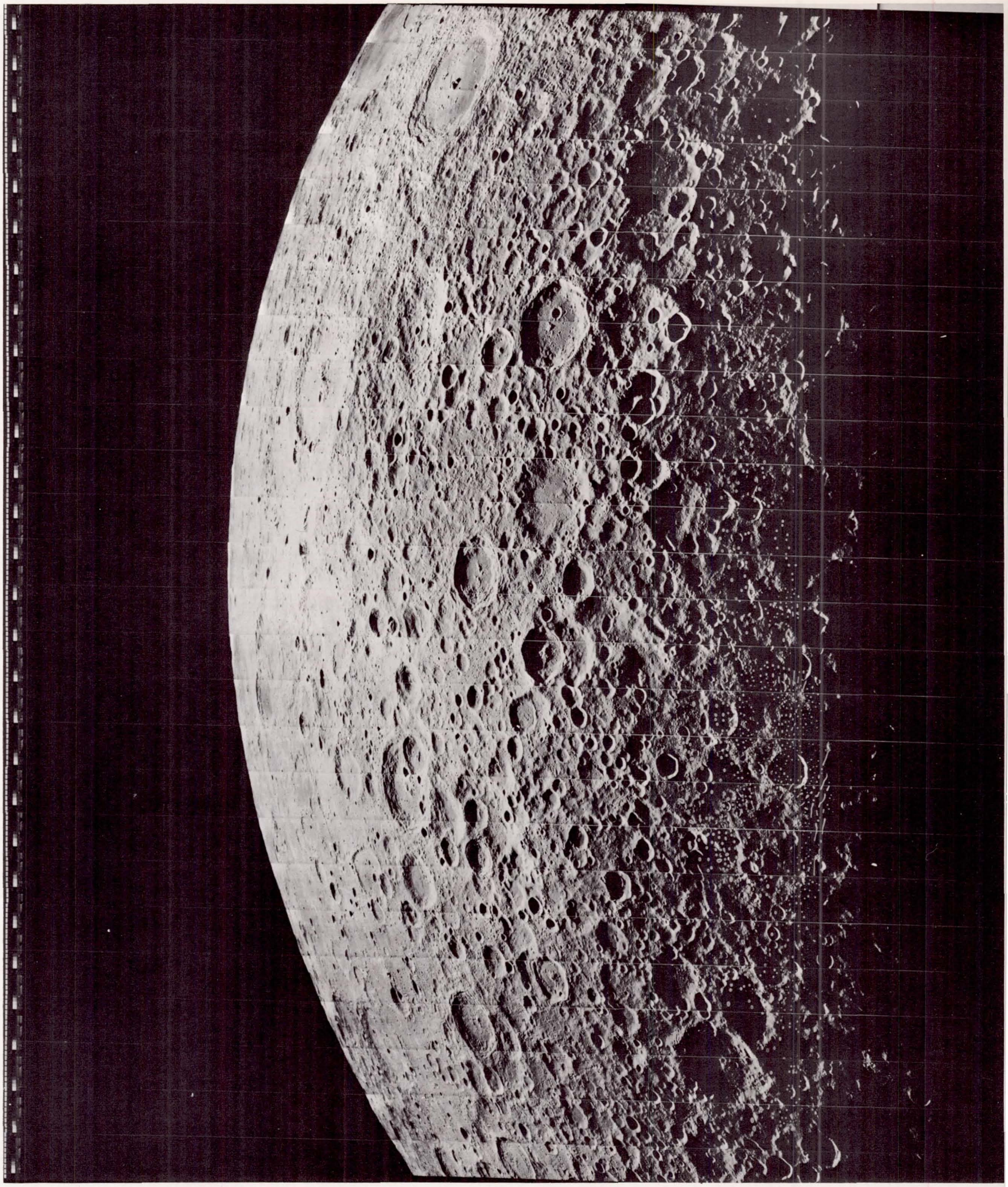
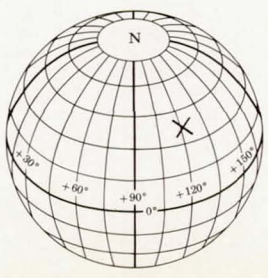



PLATE 540

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 46 KILOMETERS

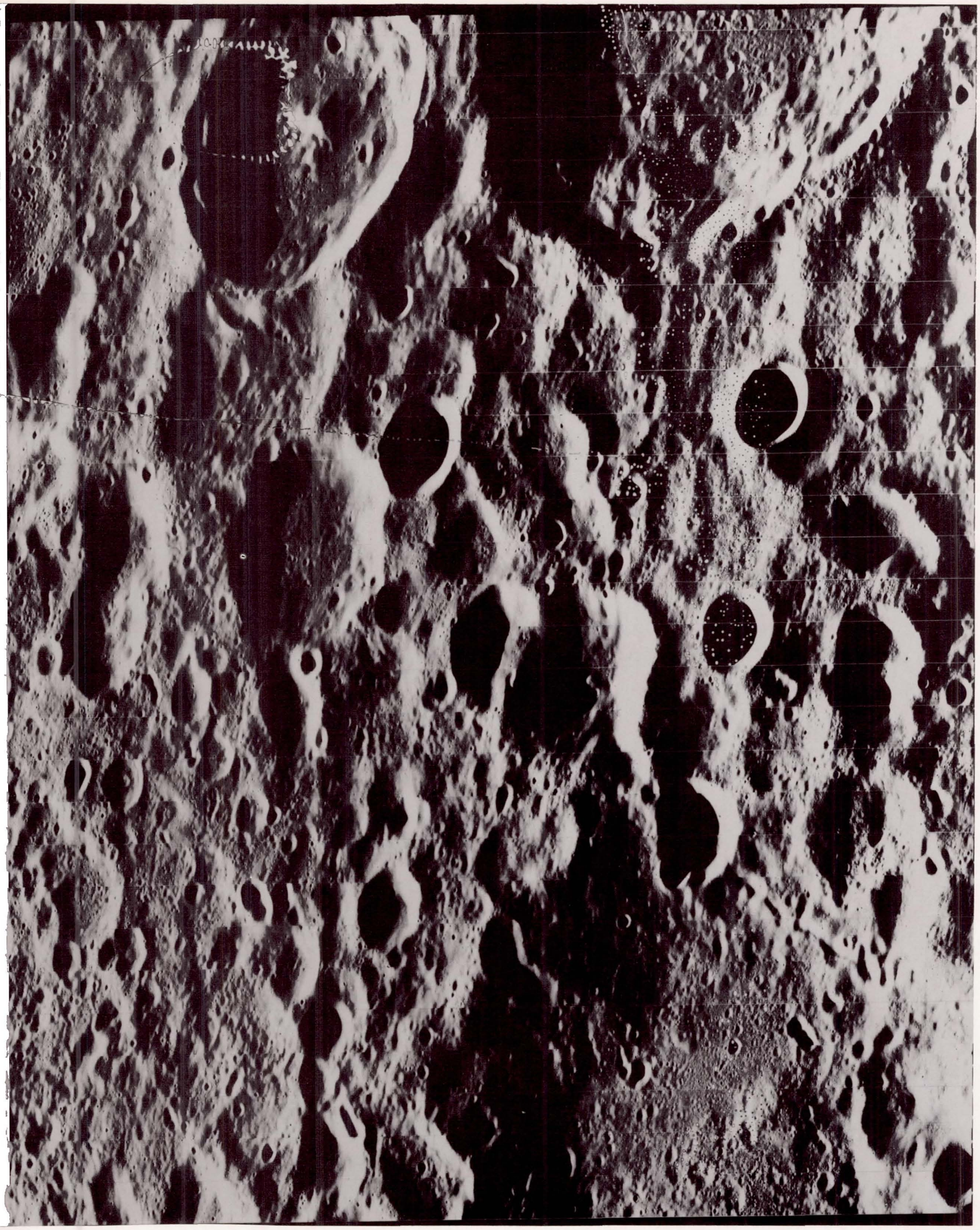
N

PHOTO NO. V-163-M

CENTER COORDINATES ..... LONG. 121.2
LAT. 38.1
NORTH DEVIATION (DEG.) ..... 4.4
SUN ANGLE ..... 78
SPACECRAFT ALTITUDE (KM) ..... 1230.7

PLATE 541

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-163-H3

ITER COORDINATES ..... LONG. 121.22
LAT. 38.04
RTH DEVIATION (DEG.) ..... 4.27
N ANGLE ..... 78.5
ECRAFT ALTITUDE (KM) ..... 1230.74

N

1 CENTIMETER ≈ 6 KILOMETERS

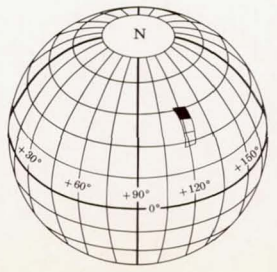
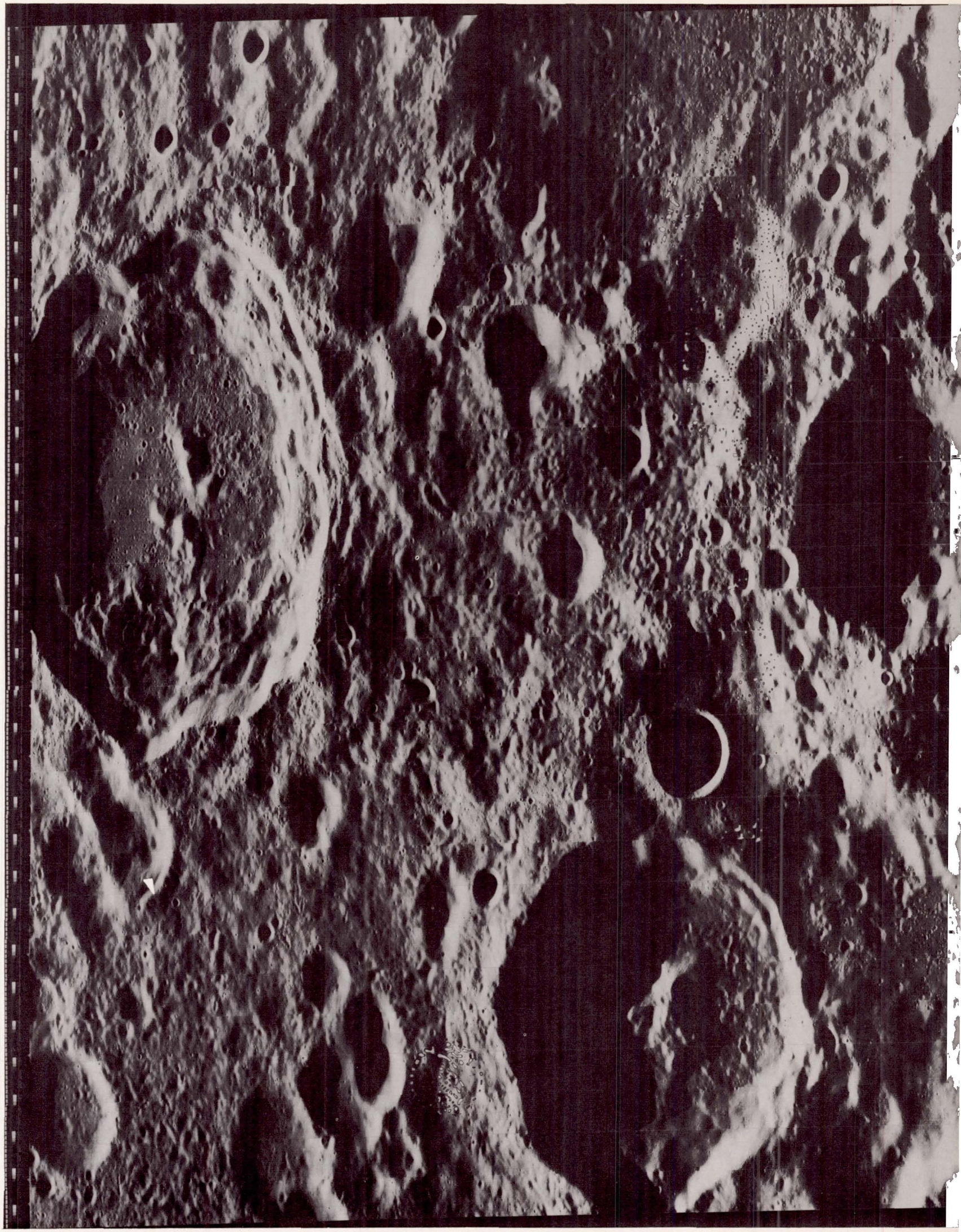
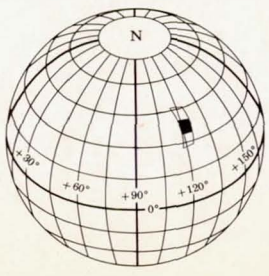



PLATE 542

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

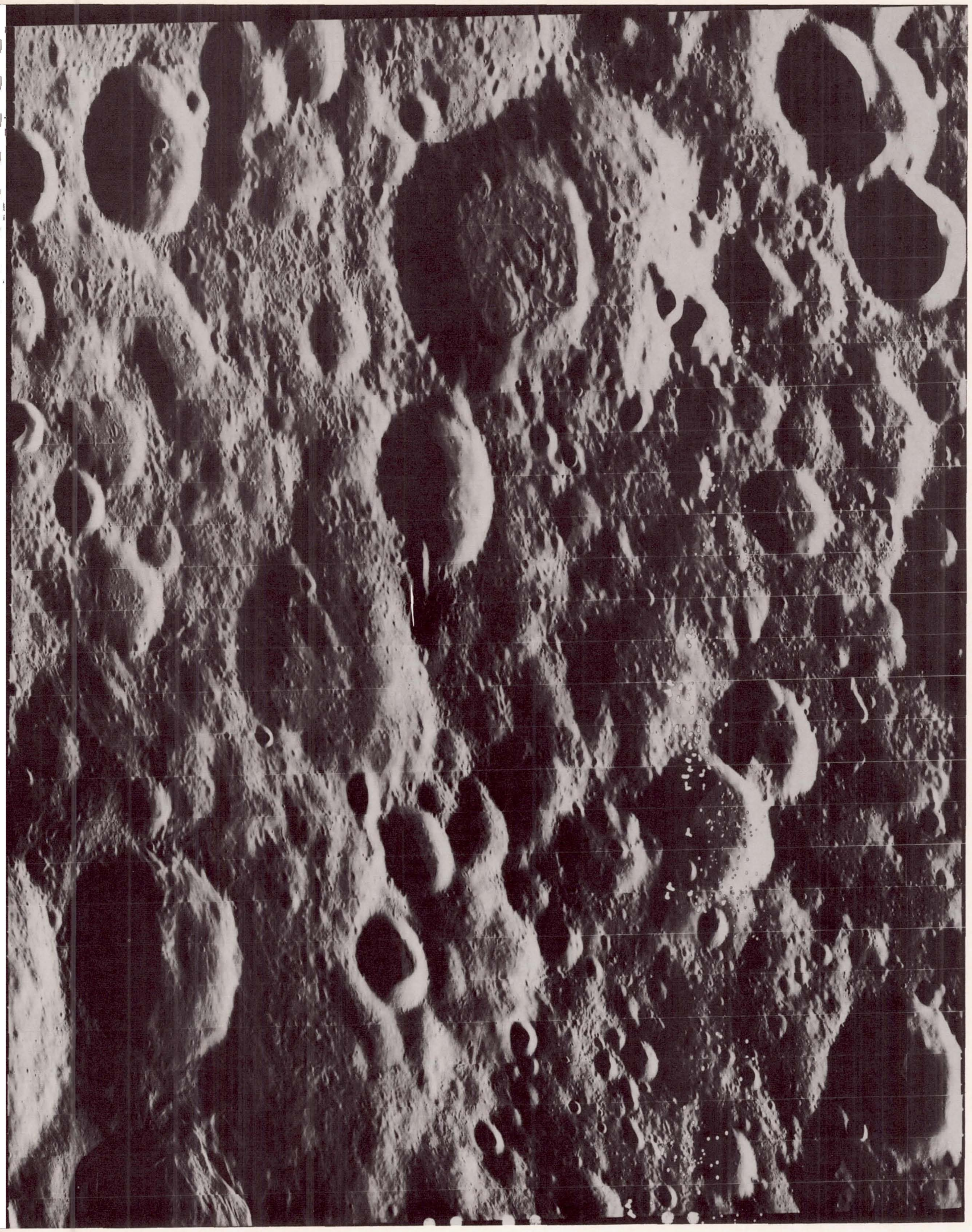
N

PHOTO NO. V-163-H2

CENTER COORDINATES ..... LONG. 121
LAT. 3
NORTH DEVIATION (DEG.) .....
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) .....123

PLATE 543

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-163-H1

CENTER COORDINATES ..... LONG. 121.22
LAT. 38.04
NORTH DEVIATION (DEG.) ..... 4.27
SUN ANGLE ..... 78.5
SPACECRAFT ALTITUDE (KM) ..... 1230.74

N

1 CENTIMETER ≈ 6 KILOMETERS

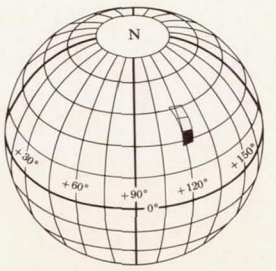
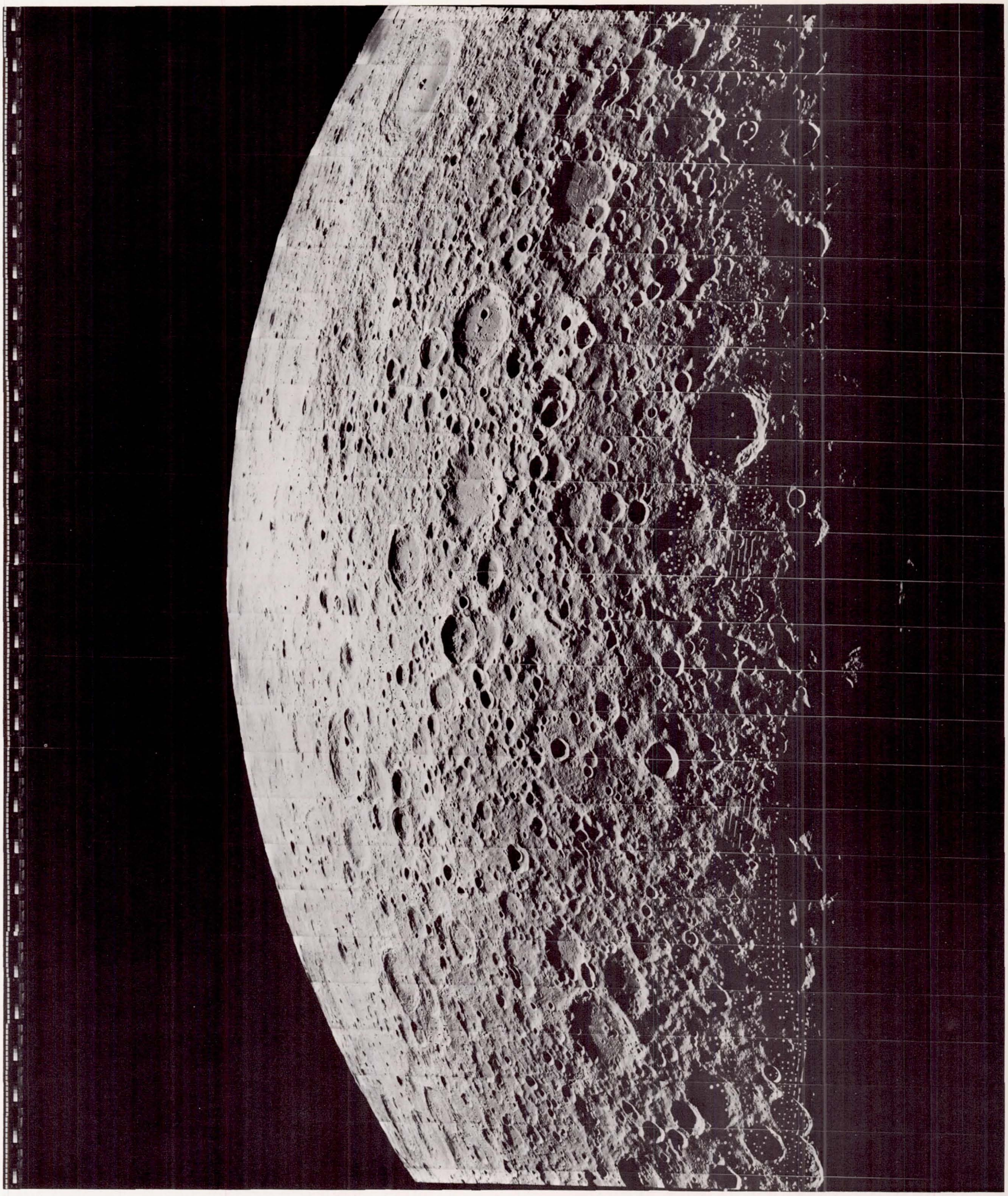
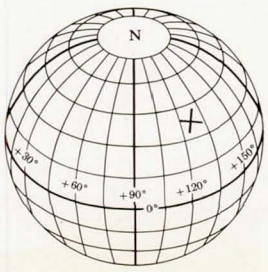



PLATE 544

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 46 KILOMETERS

N

PHOTO NO. V-158-M

CENTER COORDINATES ..... LONG. 126.
LAT. 37.
NORTH DEVIATION (DEG.) ..... 4.
SUN ANGLE ..... 79
SPACECRAFT ALTITUDE (KM) ..... 1233.

PLATE 545

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-158-H3

CENTER COORDINATES ..... LONG. 126.77
LAT. 37.83
NORTH DEVIATION (DEG.) ..... 4.67
SUN ANGLE ..... 79.1
SPACECRAFT ALTITUDE (KM) ..... 1232.98

N

1 CENTIMETER ≈ 6 KILOMETERS

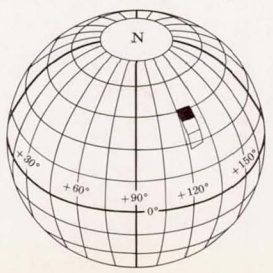
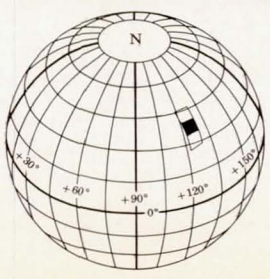



PLATE 546

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. V-158-H2

CENTER COORDINATES ..... LONG. 126.7
LAT. 37.8
NORTH DEVIATION (DEG.) ..... 4.6
SUN ANGLE ..... 79.
SPACECRAFT ALTITUDE (KM) ..... 1232.9

PLATE 547

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

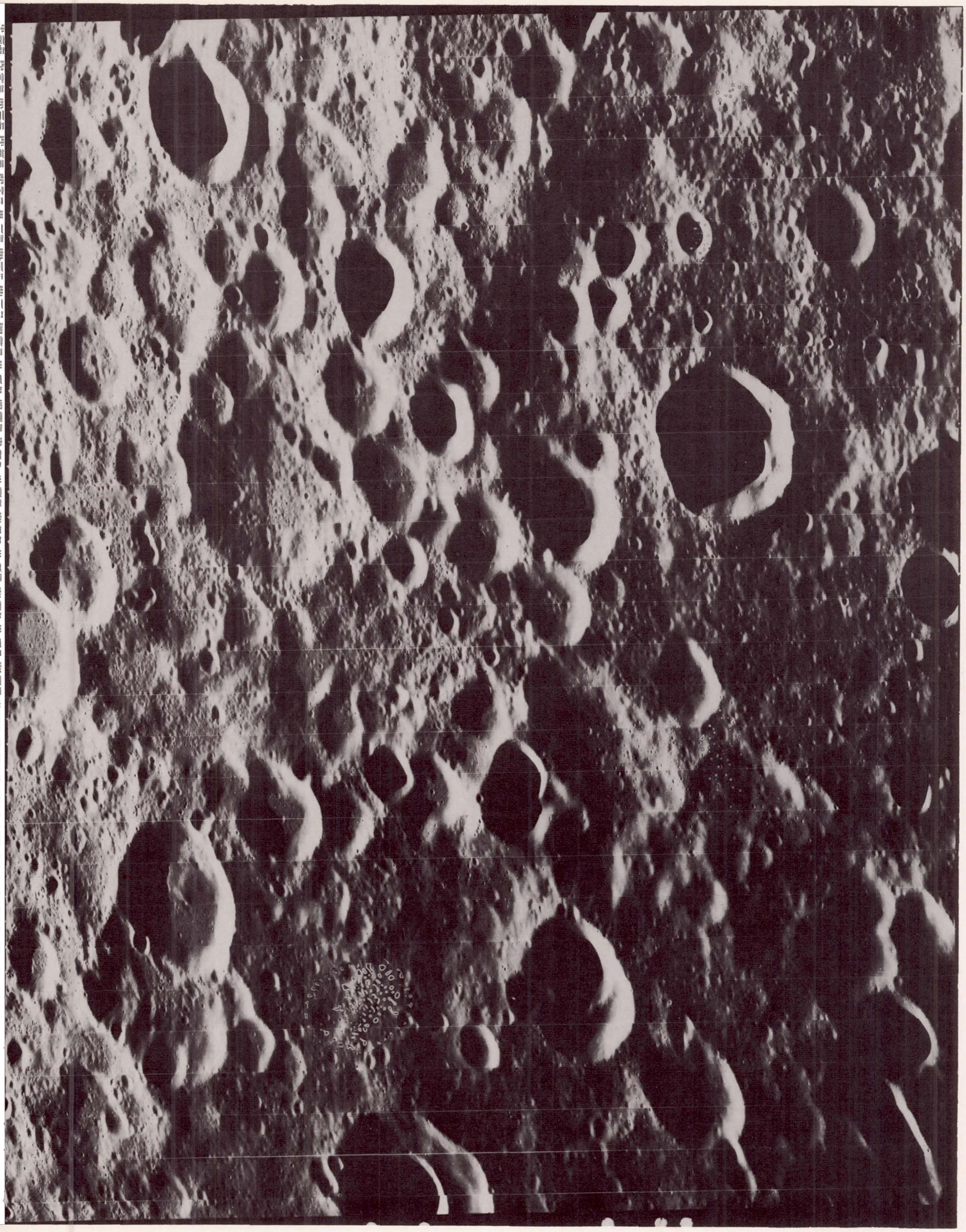


PHOTO NO. V-158-H1

CENTER COORDINATES ..... LONG. 126.77
LAT. 37.83
NORTH DEVIATION (DEG.) ..... 4.67
SUN ANGLE ..... 79.1
SPACECRAFT ALTITUDE (KM) .....1232.98

N

1 CENTIMETER ≈ 6 KILOMETERS

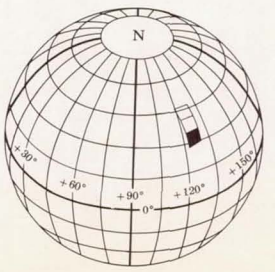
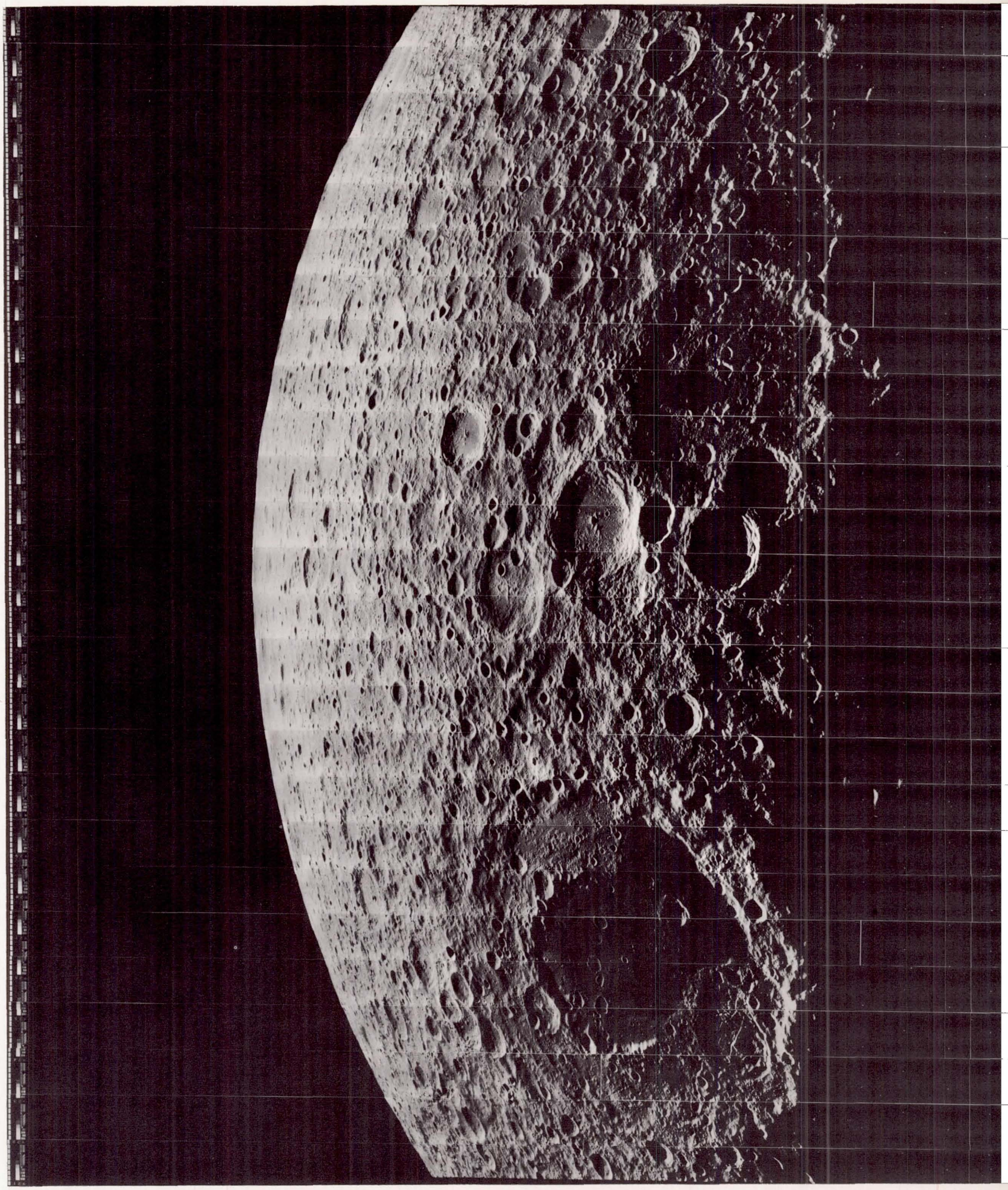
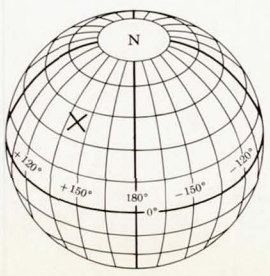



PLATE 548

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE MOSCOVIENSE.... H12

1 CENTIMETER ≈ 47 KILOMETERS

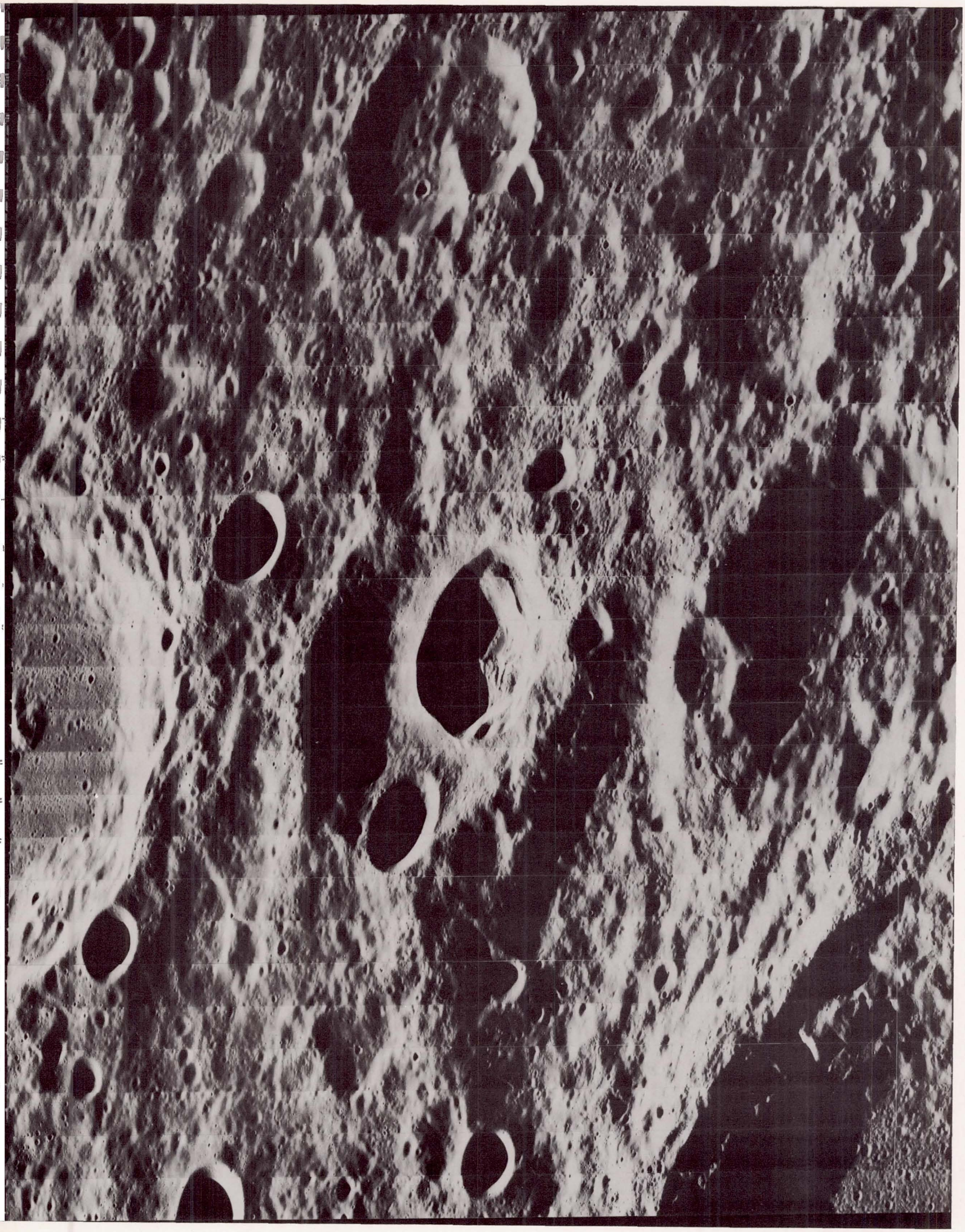
N

PHOTO NO. V-124-M

CENTER COORDINATES ..... LONG. 143.
LAT. 38.
NORTH DEVIATION (DEG.) ..... 4.
SUN ANGLE ..... 79
SPACECRAFT ALTITUDE (KM) .....1236.

PLATE 549

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-124-H3

CENTER COORDINATES ..... LONG. 143.81
LAT. 38.56
NORTH DEVIATION (DEG.) ..... 4.29
SUN ANGLE ..... 79.8
SPACECRAFT ALTITUDE (KM) .....1236.58

N

1 CENTIMETER ≈ 6 KILOMETERS

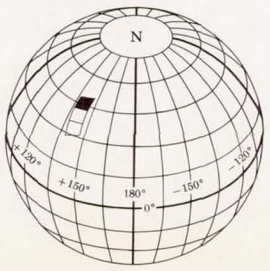
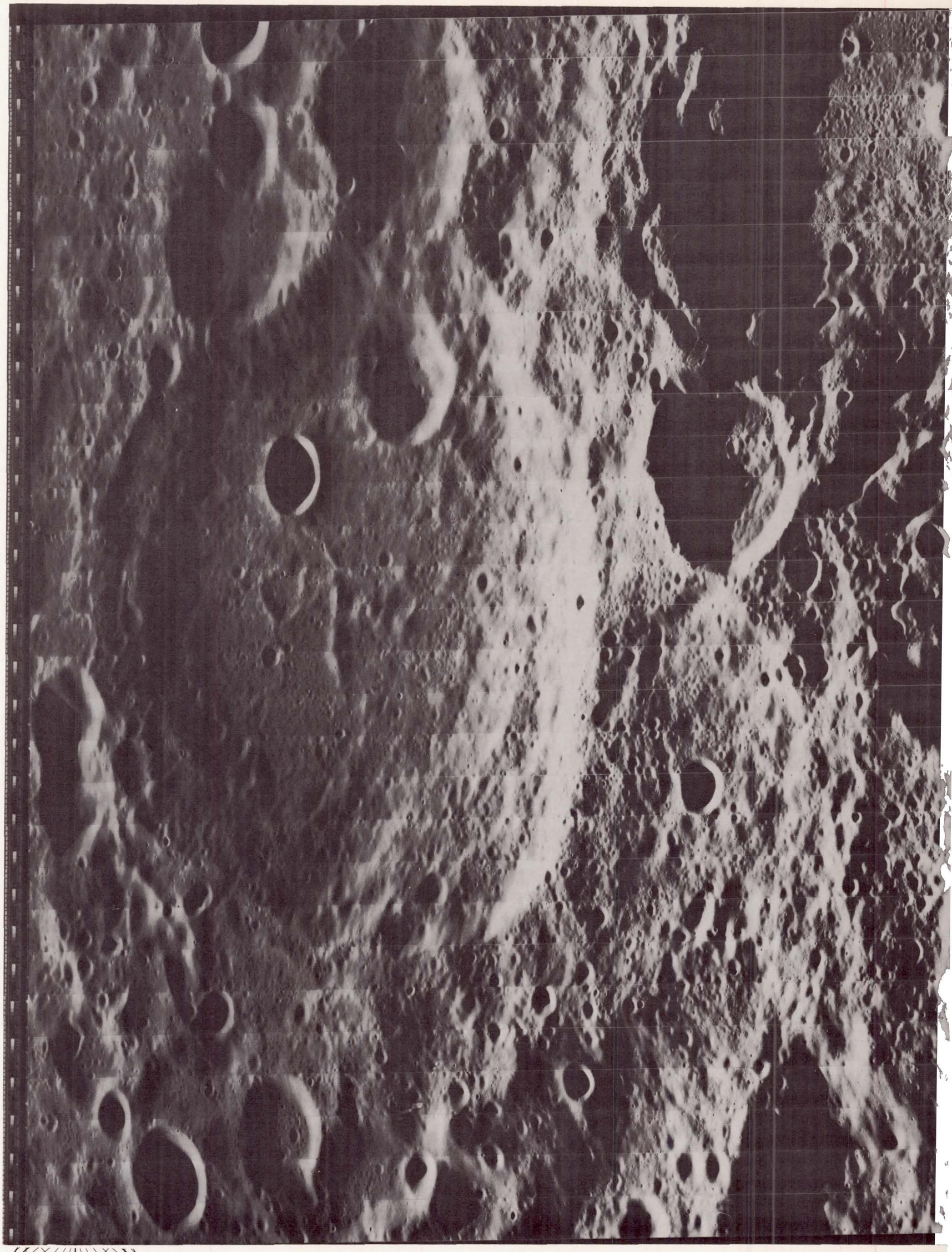
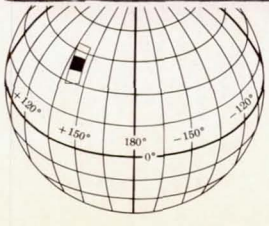



PLATE 550

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 14 KILOMETERS

N

PHOTO NO. V-124-H2

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | 143.8 |
| LAT. | 38.5 |
| NORTH DEVIATION (DEG.) ..... | 4.2 |
| SUN ANGLE ..... | 79. |
| SPACECRAFT ALTITUDE (KM) ..... | 1236.5 |

PLATE 551

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

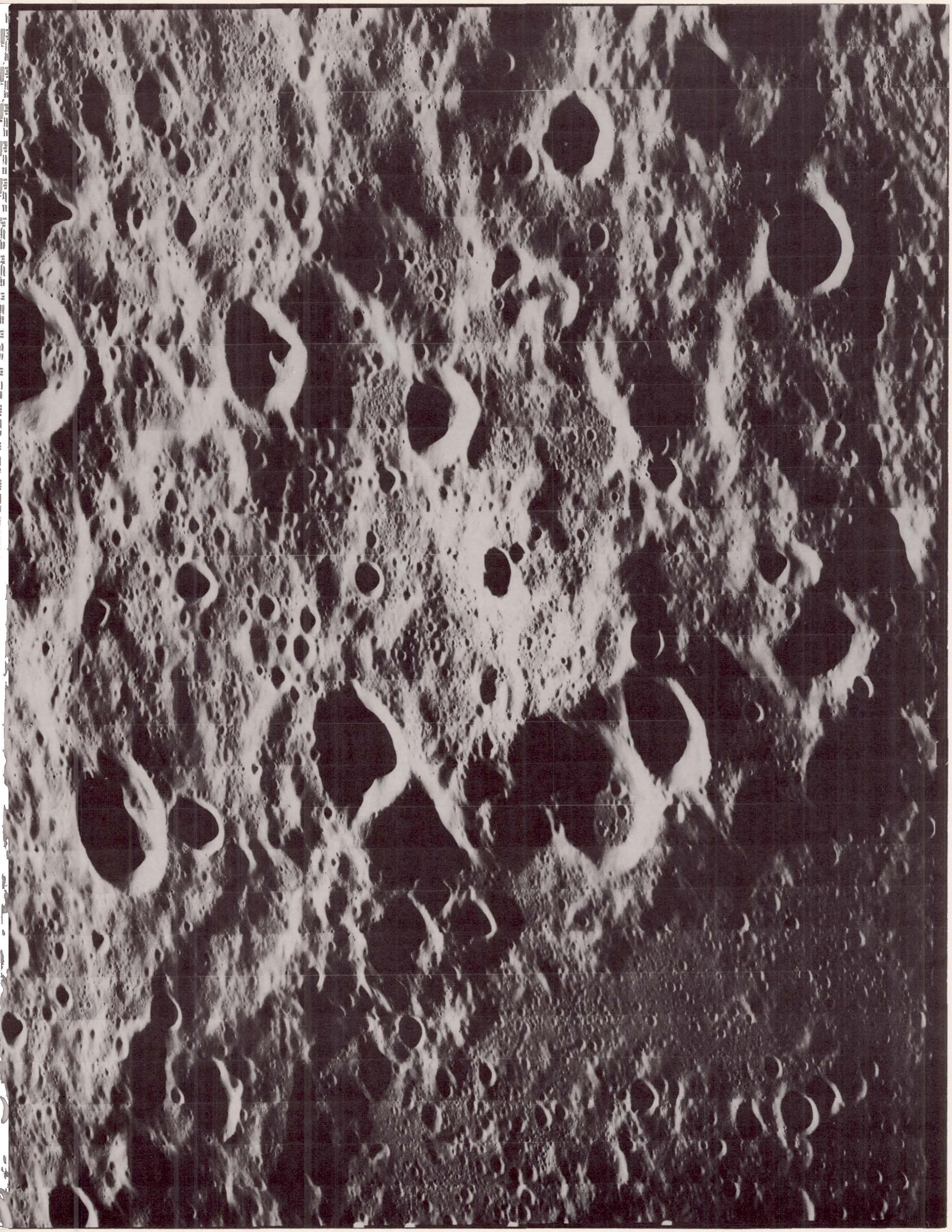


PHOTO NO. V-124-H1

CENTER COORDINATES ..... LONG. 143.81
LAT. 38.56
NORTH DEVIATION (DEG.) ..... 4.29
SUN ANGLE ..... 79.8
SPACECRAFT ALTITUDE (KM) ..... 1236.58

N

1 CENTIMETER ≈ 4 KILOMETERS

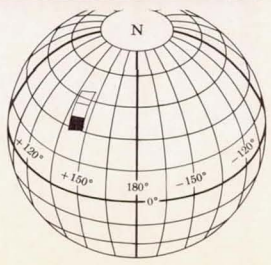
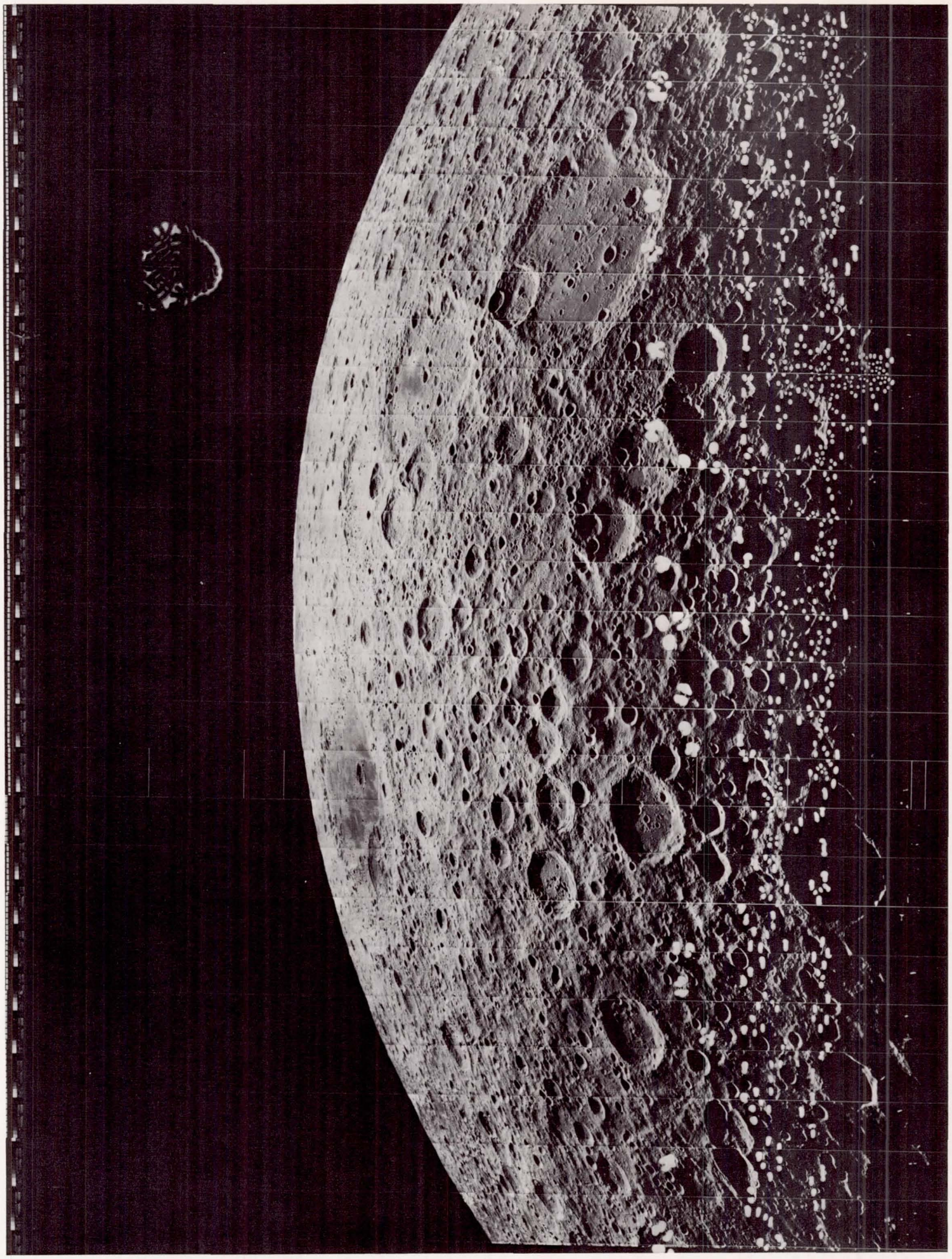
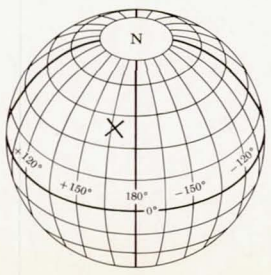



PLATE 552

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 48 KILOMETERS

N

PHOTO NO. V-79-M

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. 167.58 |
| | LAT. 38.78 |
| NORTH DEVIATION (DEG.) ..... | 3.80 |
| SUN ANGLE ..... | 79.4 |
| SPACECRAFT ALTITUDE (KM) ..... | 1244.92 |

PLATE 553

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

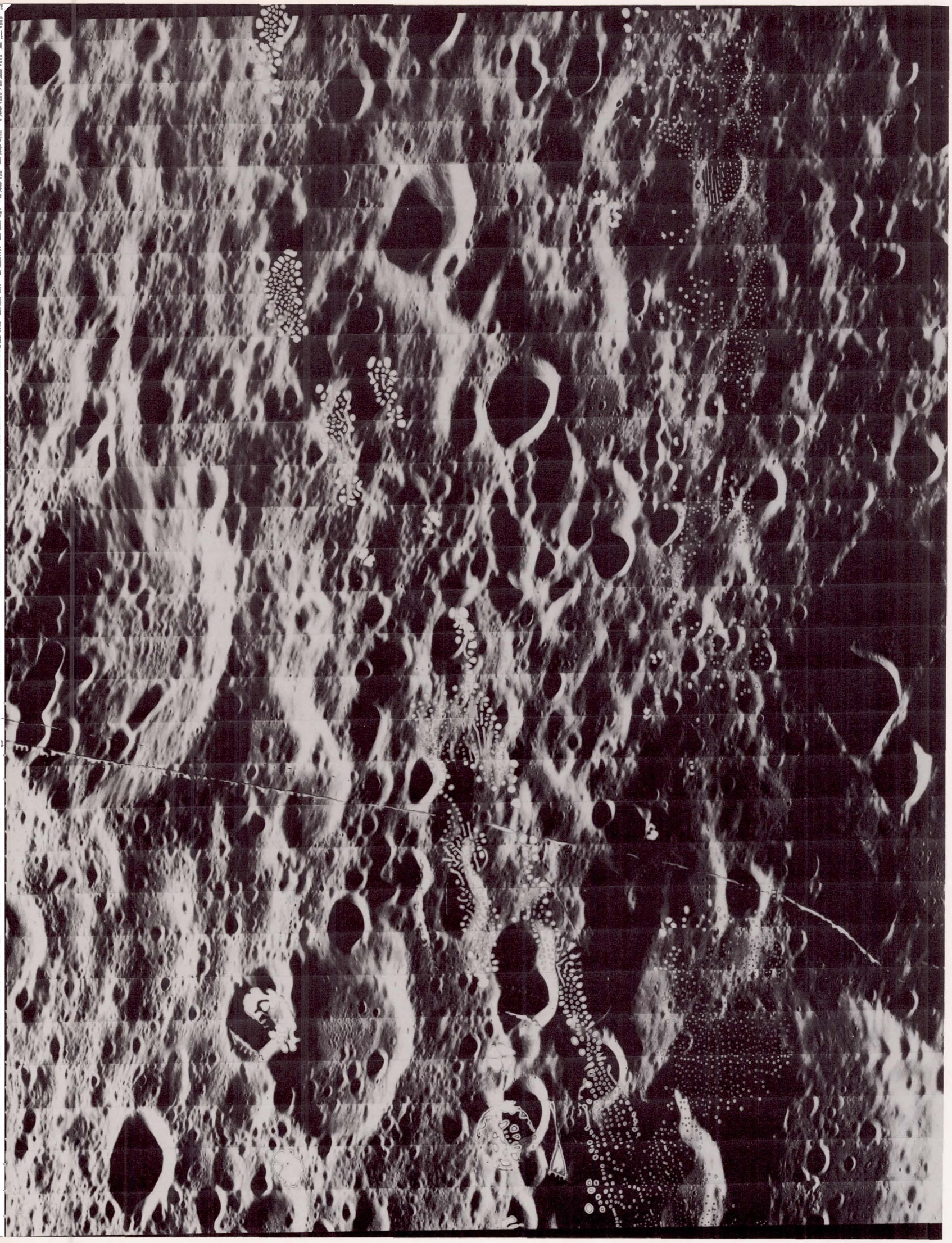


PHOTO NO. V-79-H3

ENTER COORDINATES ..... LONG. 167.55
LAT. 38.66
ORTH DEVIATION (DEG.) ..... 3.67
N ANGLE ..... 79.4
ACECRAFT ALTITUDE (KM) ..... 1244.88

N

1 CENTIMETER ≈ 6 KILOMETERS

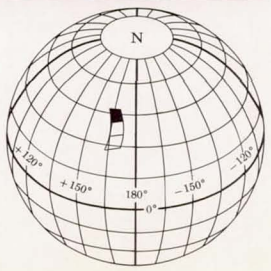
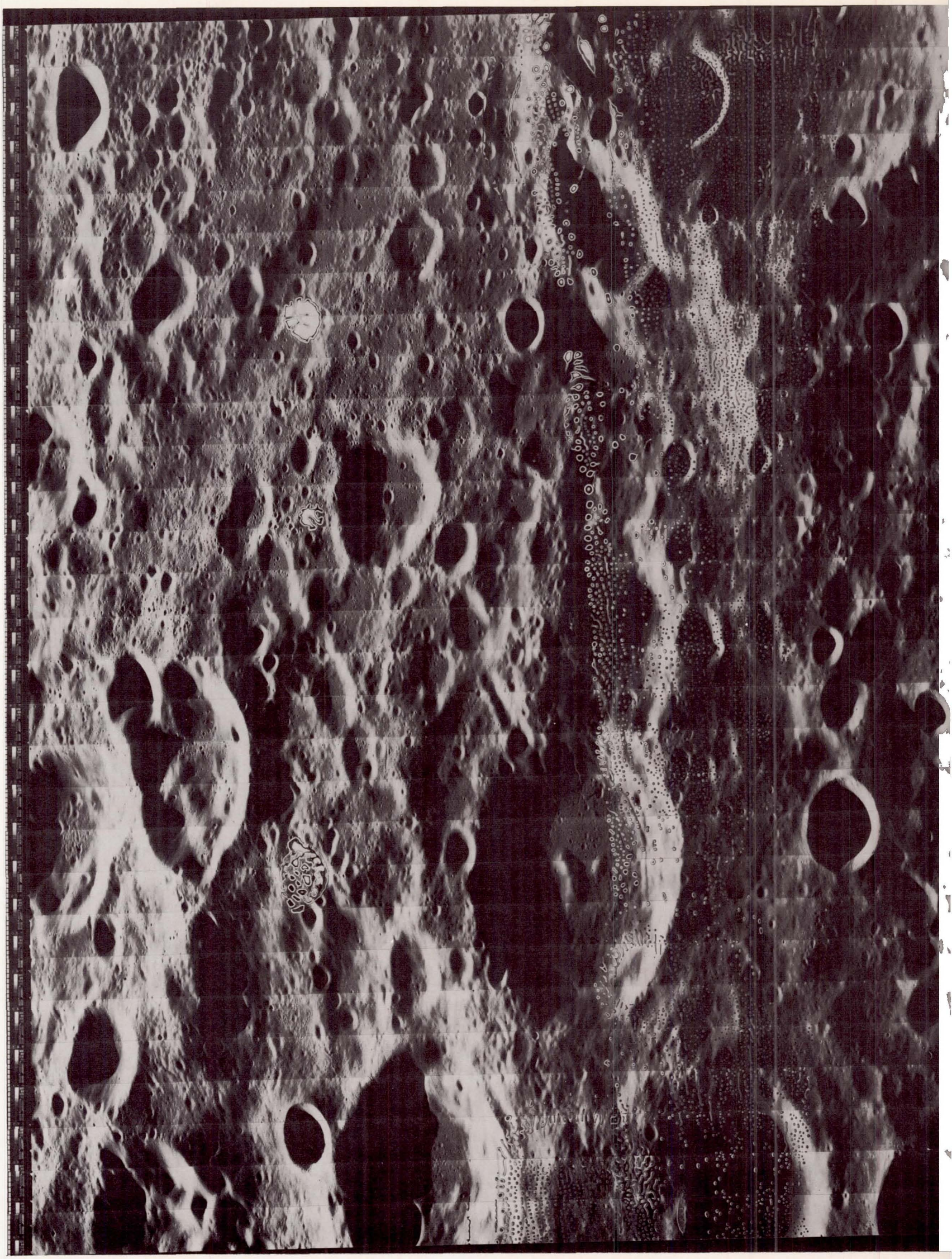
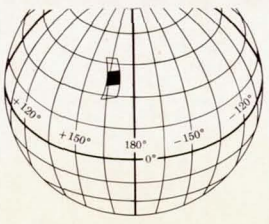



PLATE 554

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. V-79-H2

CENTER COORDINATES ..... LONG. 167
LAT. 3
NORTH DEVIATION (DEG.) .....
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) .....124

PLATE 555

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

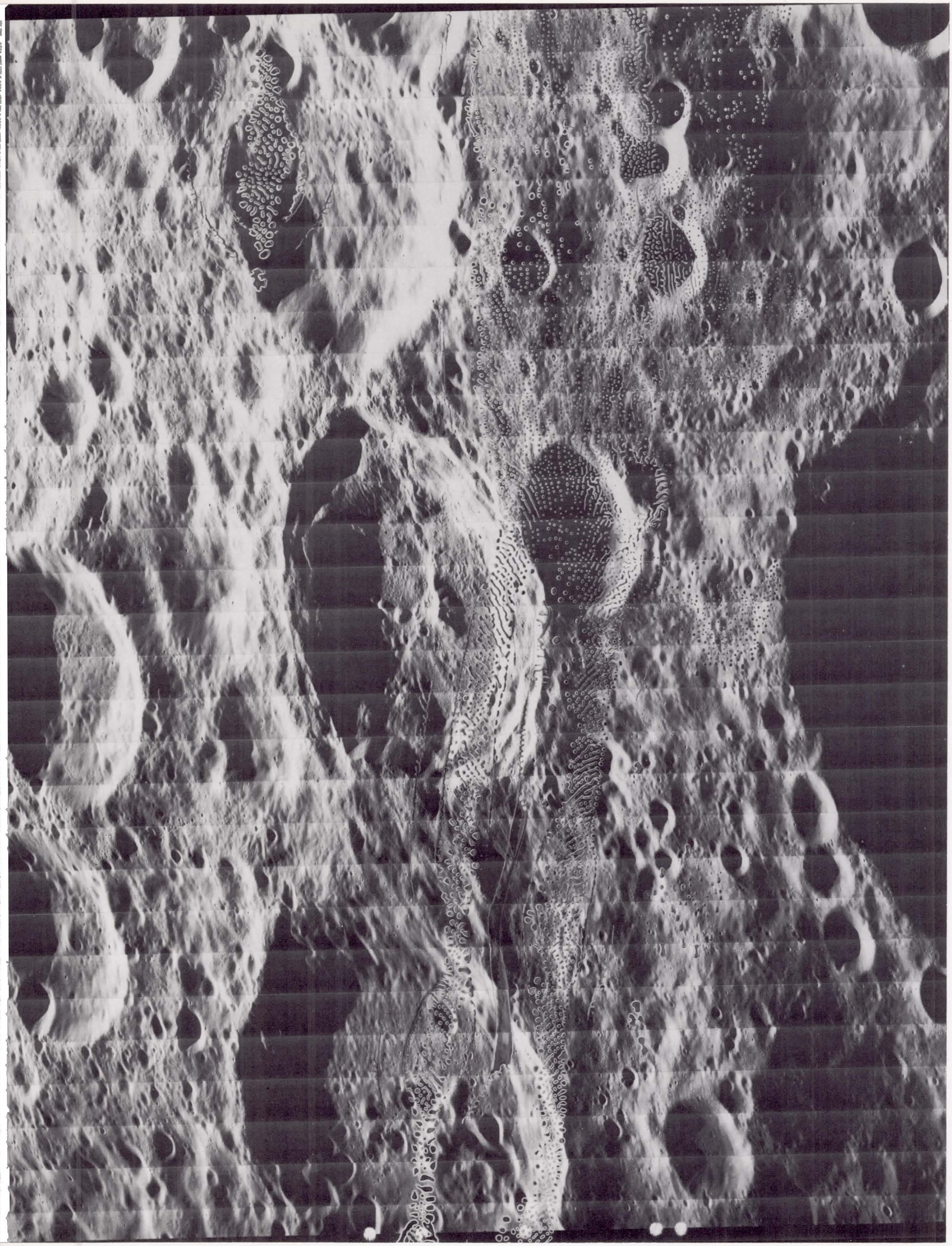


PHOTO NO.V-79-H1

ITER COORDINATES ..... LONG.167.55
LAT. 38.66
RTH DEVIATION (DEG.) ..... 3.67
N ANGLE ..... 79.4
ECRAFT ALTITUDE (KM) ..... 1244.88

N

1 CENTIMETER ≈ 6 KILOMETERS

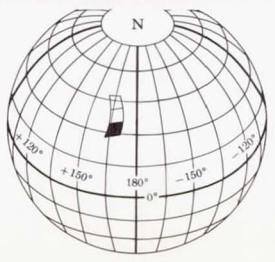
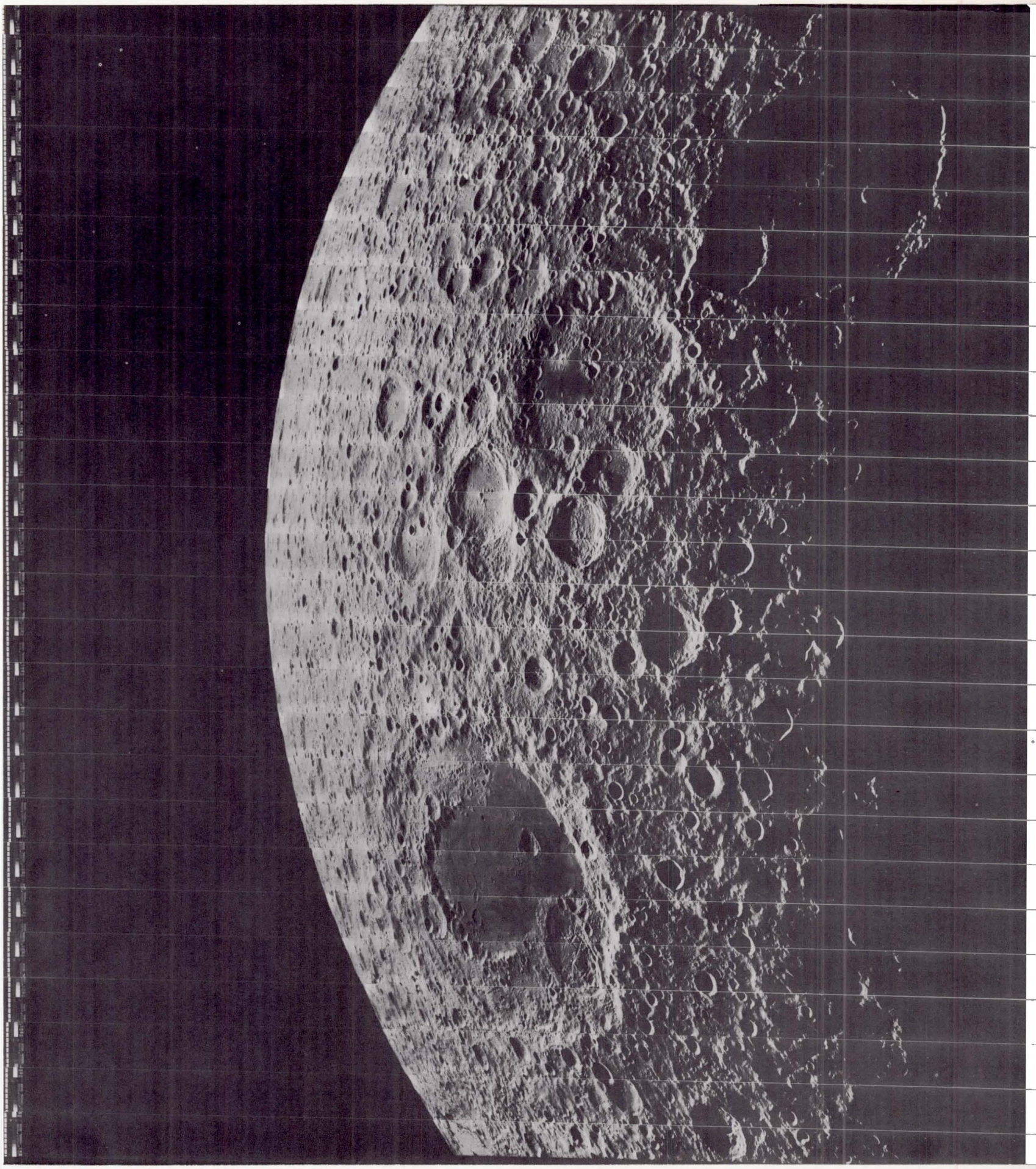
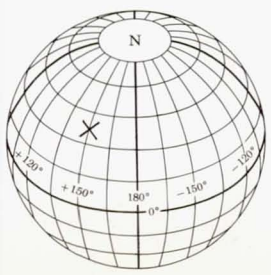



PLATE 556

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE MOSCOVIENSE .... F11

1 CENTIMETER ≈ 48 KILOMETERS

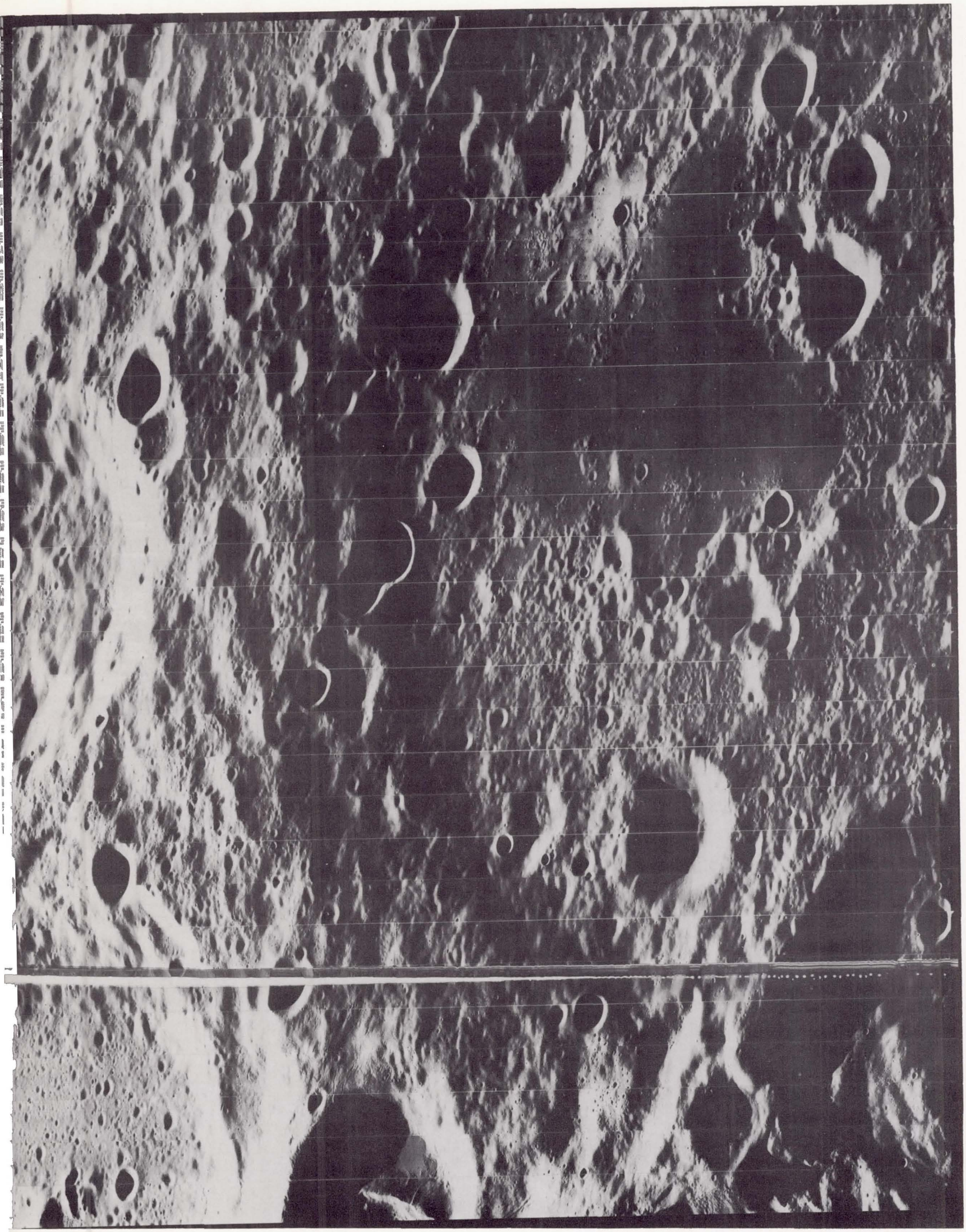
N

PHOTO NO. V-103-M

CENTER COORDINATES ..... LONG. 150.
LAT. 38.
NORTH DEVIATION (DEG.) ..... 4.
SUN ANGLE ..... 79
SPACECRAFT ALTITUDE (KM) ..... 1236.

PLATE 557

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-103-H3

CENTER COORDINATES ..... LONG. 150.81
LAT. 38.72
NORTH DEVIATION (DEG.) ..... 4.05
SUN ANGLE ..... 79.0
SPACECRAFT ALTITUDE (KM) ..... 1236.54

N

1 CENTIMETER ≈ 6 KILOMETERS

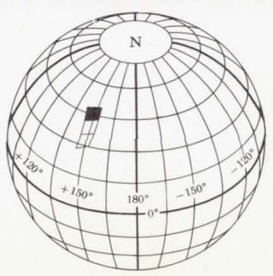
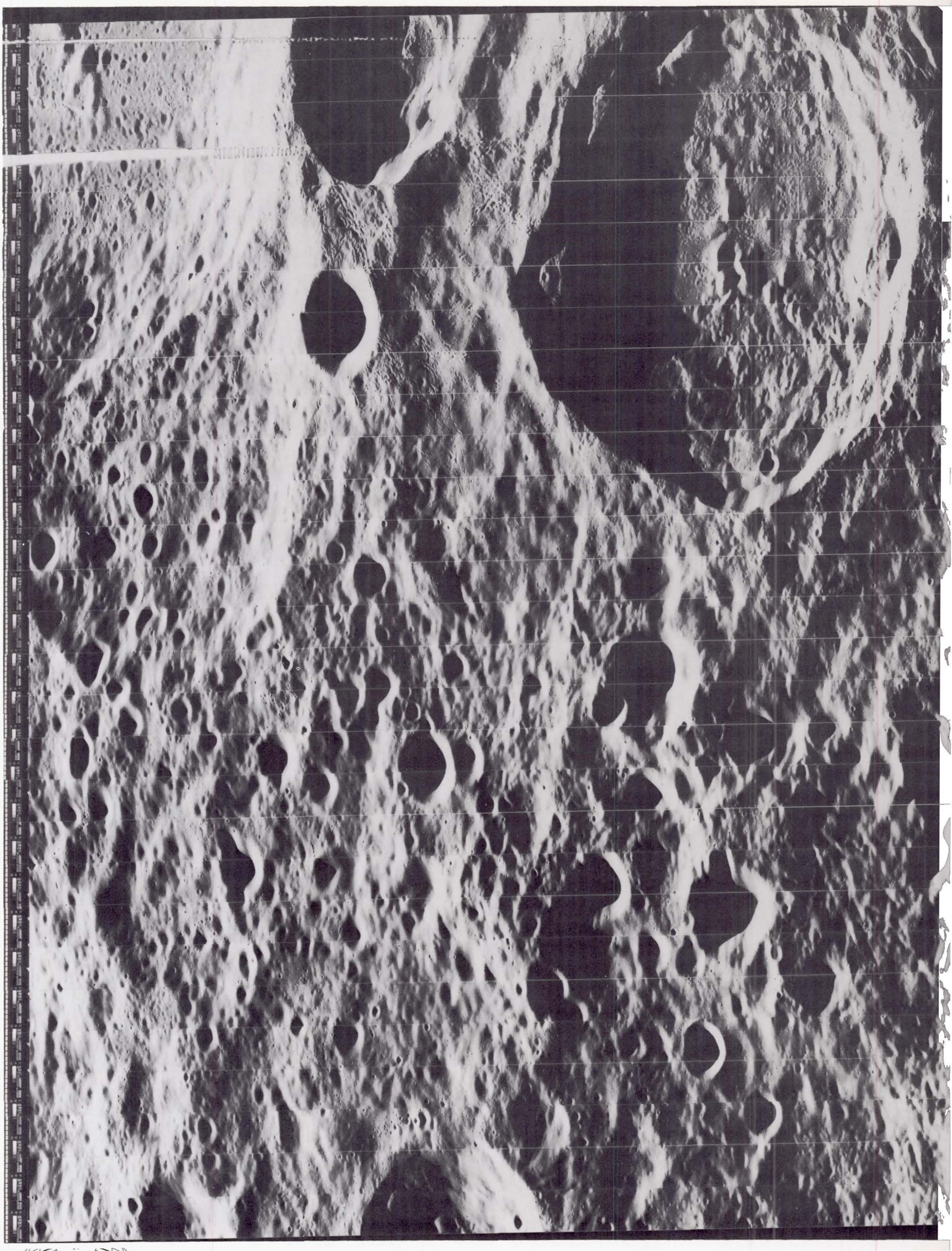
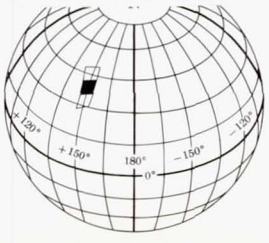



PLATE 558

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. V-103-H2

CENTER COORDINATES ..... LONG. 150.8
LAT. 38.7
NORTH DEVIATION (DEG.) ..... 4.0
SUN ANGLE ..... 79.
SPACECRAFT ALTITUDE (KM) ..... 1236.5

PLATE 559

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. V-103-H1

ENTER COORDINATES ..... LONG. 150.81
LAT. 38.72
ORTH DEVIATION (DEG.) ..... 4.05
JN ANGLE ..... 79.0
PACECRAFT ALTITUDE (KM) ..... 1236.54

N

1 CENTIMETER ≈ 6 KILOMETERS

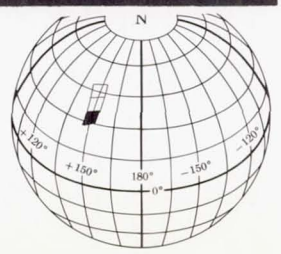
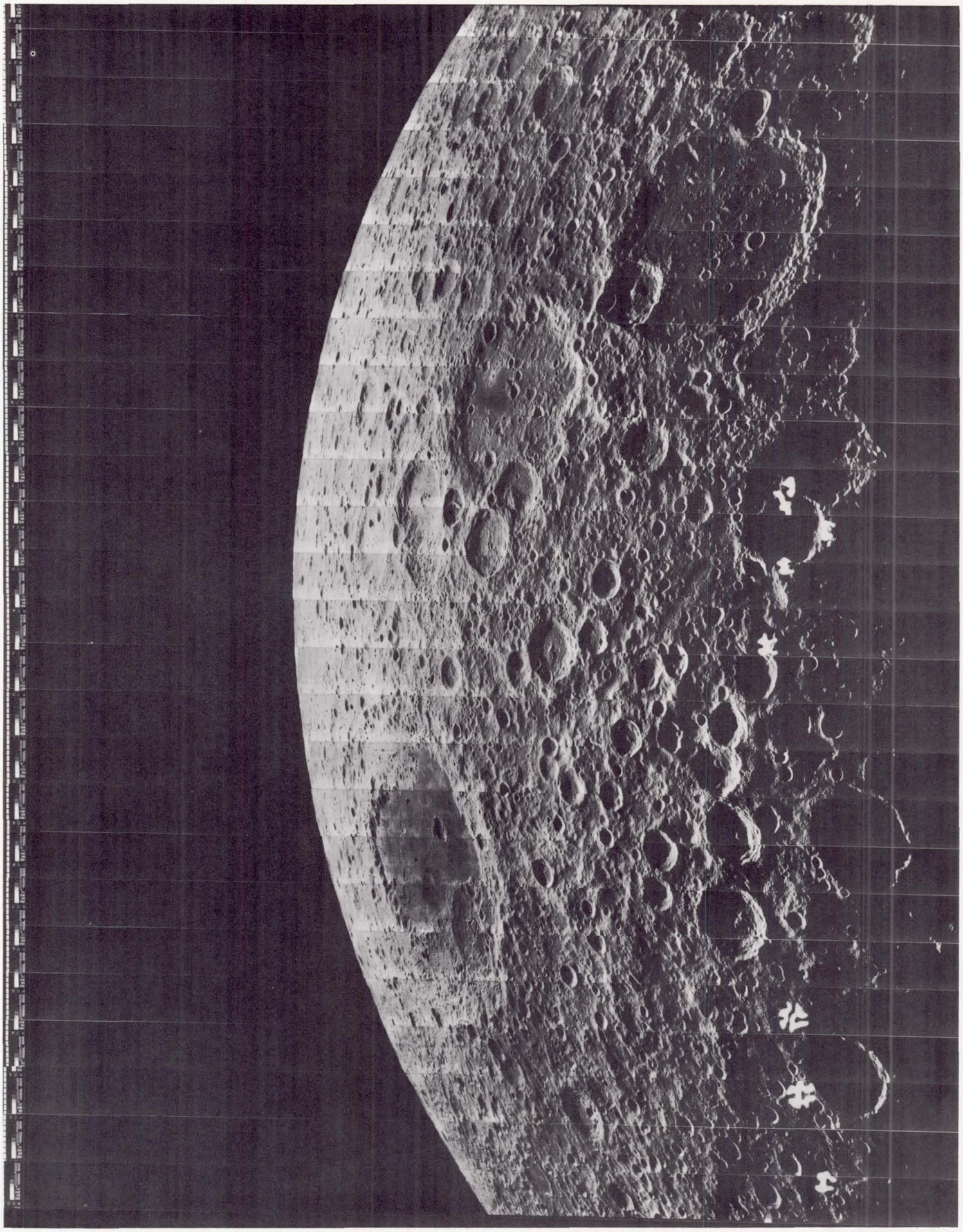
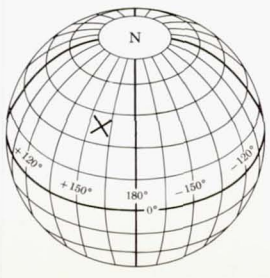



PLATE 560

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE MOSCOVIENSE .... E10

1 CENTIMETER ≈ 48 KILOMETERS

N

PHOTO NO.V-85-M

CENTER COORDINATES ..... LONG.158.
LAT. 38.
NORTH DEVIATION (DEG.) .....4.
SUN ANGLE .....7
SPACECRAFT ALTITUDE (KM) .....1239.

PLATE 561

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

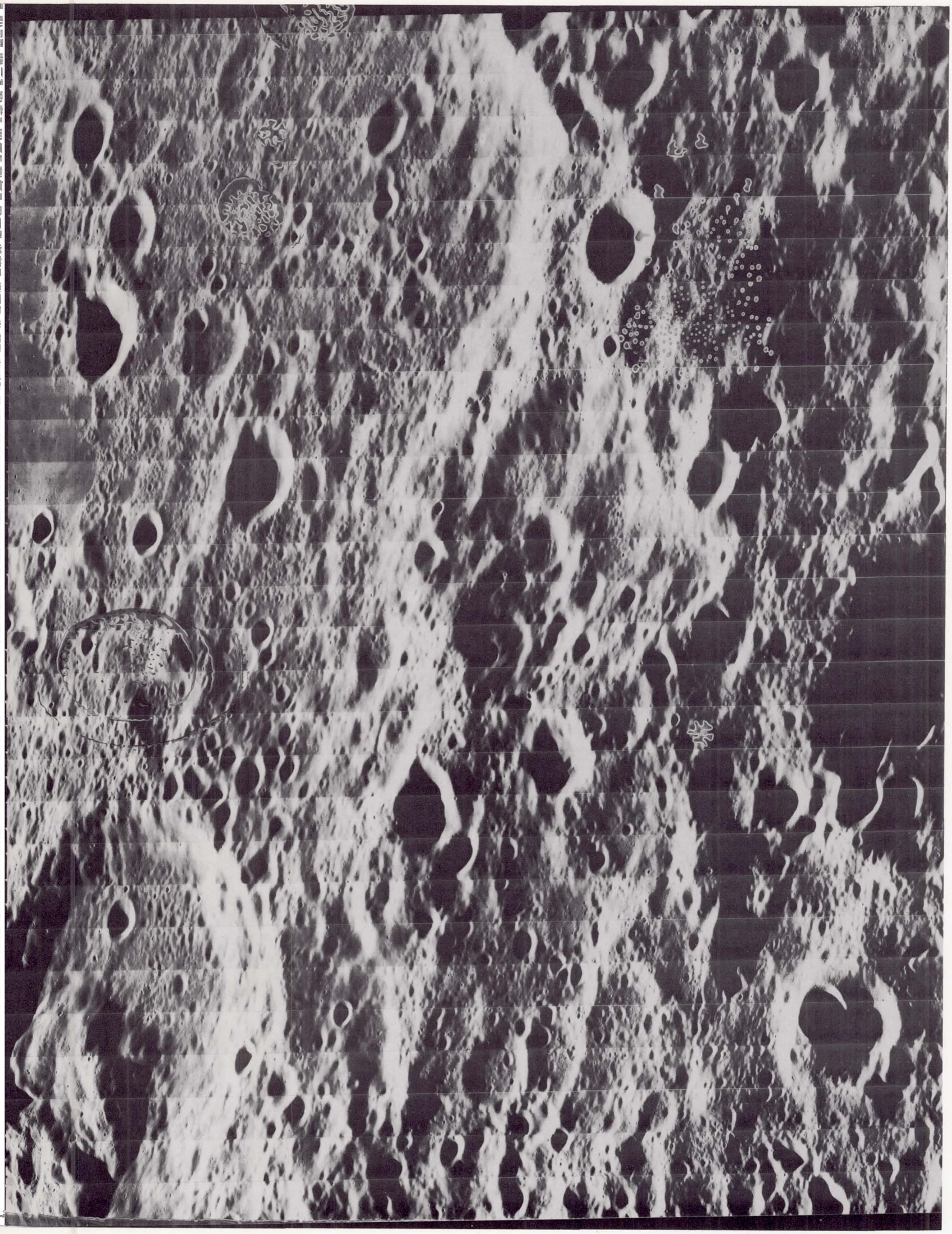


PHOTO NO. V-85-H3

CENTER COORDINATES ..... LONG. 158.84
LAT. 38.73
NORTH DEVIATION (DEG.) ..... 3.94
SUN ANGLE ..... 78.9
SPACECRAFT ALTITUDE (KM) ..... 1239.43

N

1 CENTIMETER ≈ 6 KILOMETERS

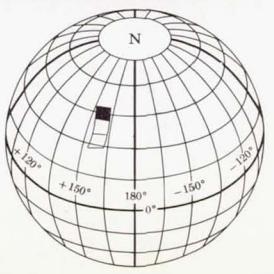
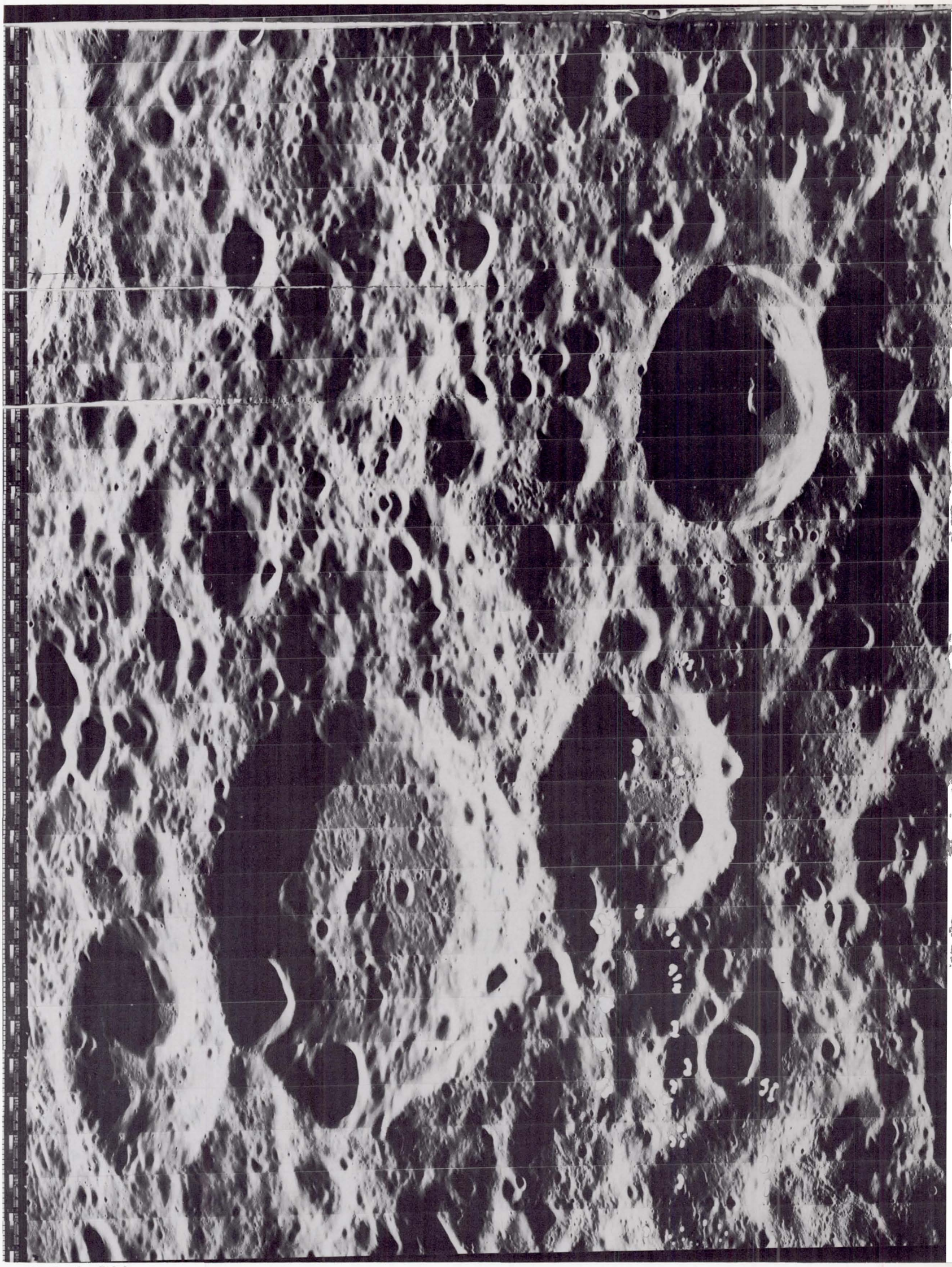
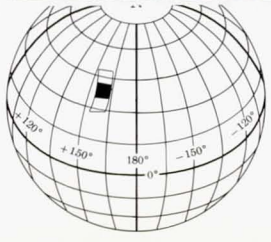



PLATE 562

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. V-85-H2

CENTER COORDINATES ..... LONG. 153
LAT. 3
NORTH DEVIATION (DEG.) ..... 3
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1239

PLATE 563

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

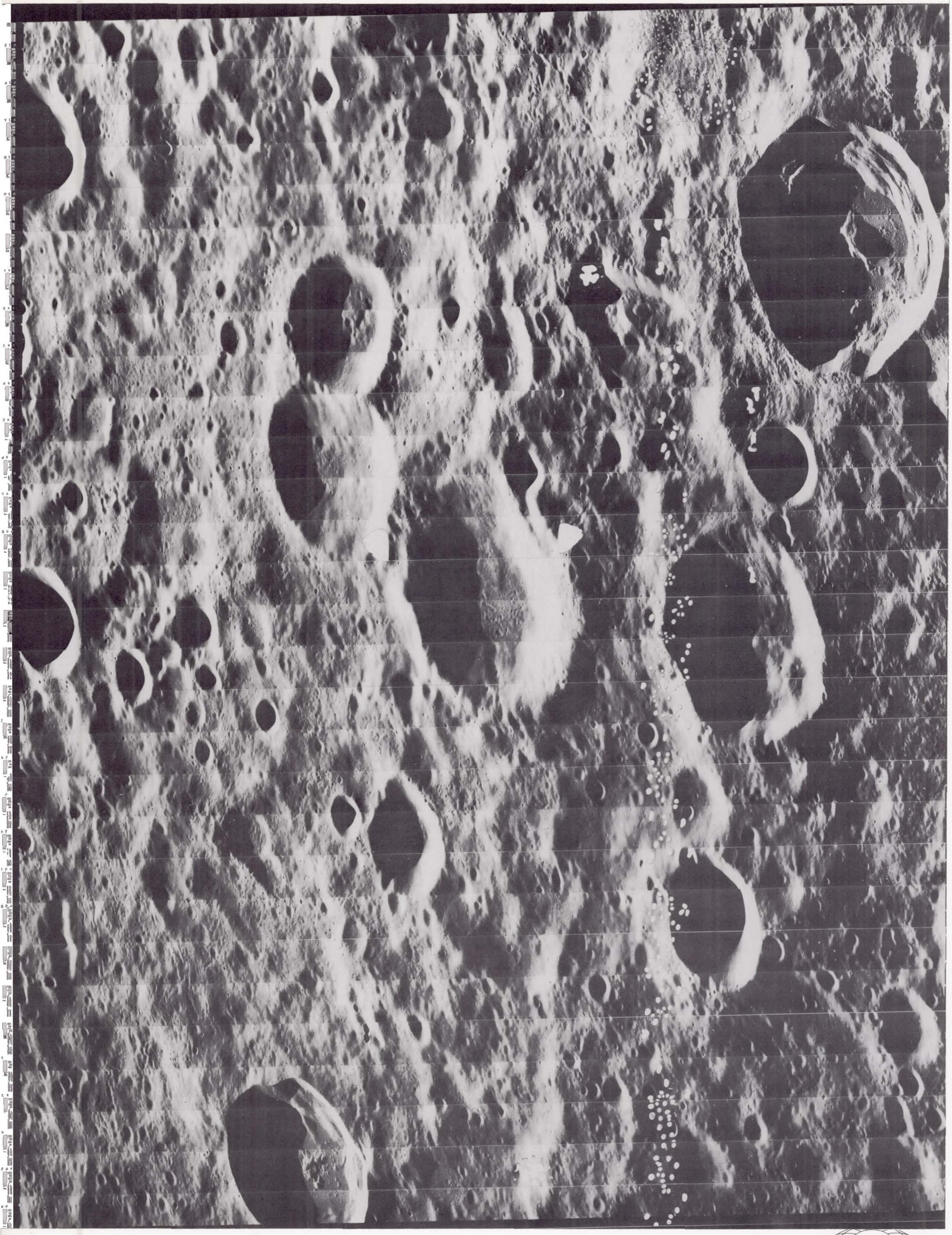


PHOTO NO. V-85-H1

ENTER COORDINATES ..... LONG. 158.84
LAT. 38.73
ORTH DEVIATION (DEG.) ..... 3.94
UN ANGLE ..... 78.9
PACECRAFT ALTITUDE (KM) ..... 1239.43

N

1 CENTIMETER ≈ 6 KILOMETERS

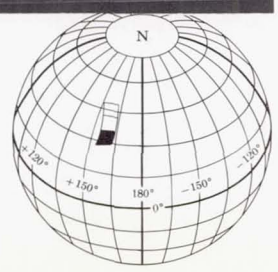
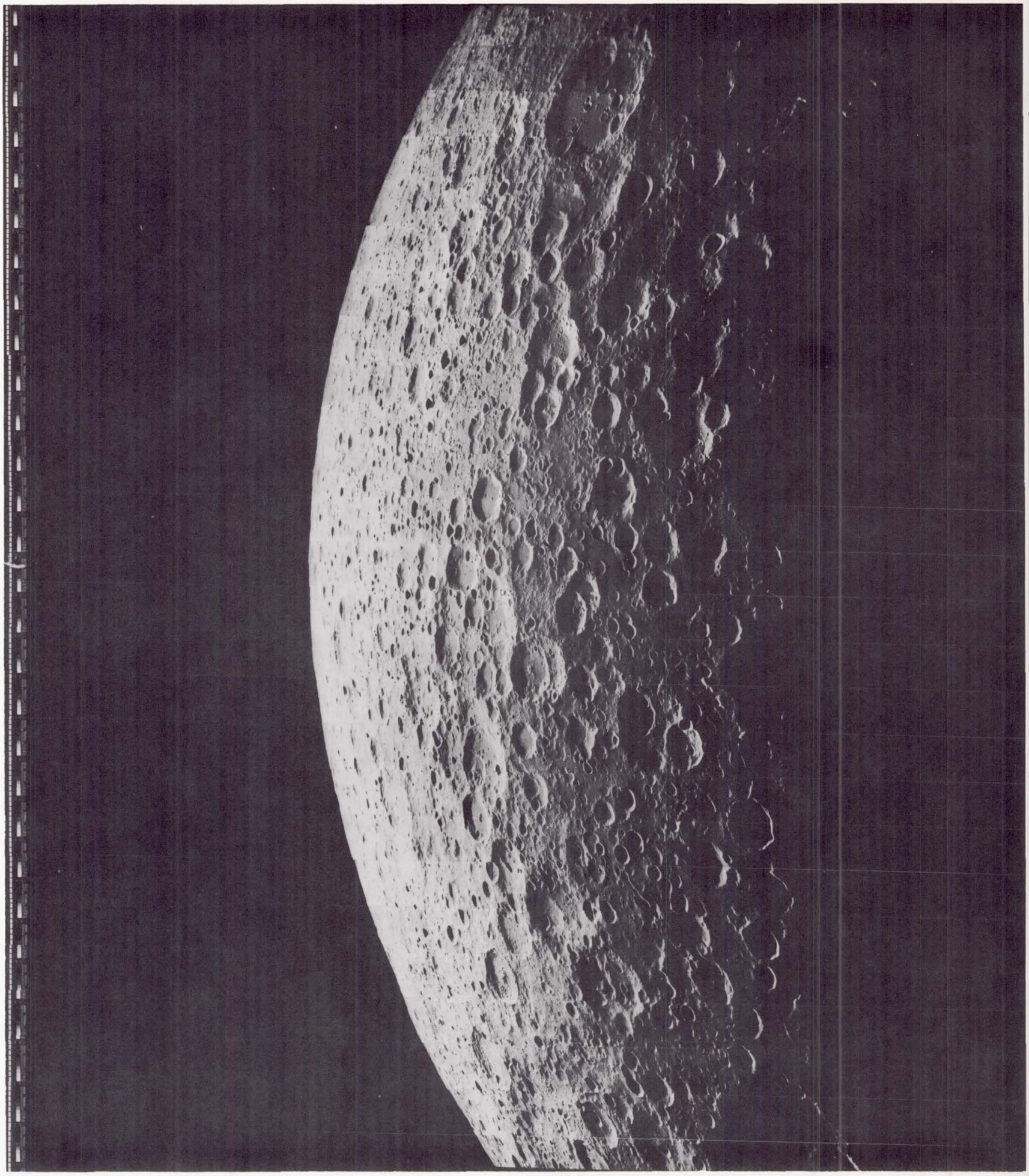
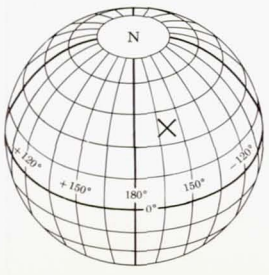



PLATE 564

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 50 KILOMETERS

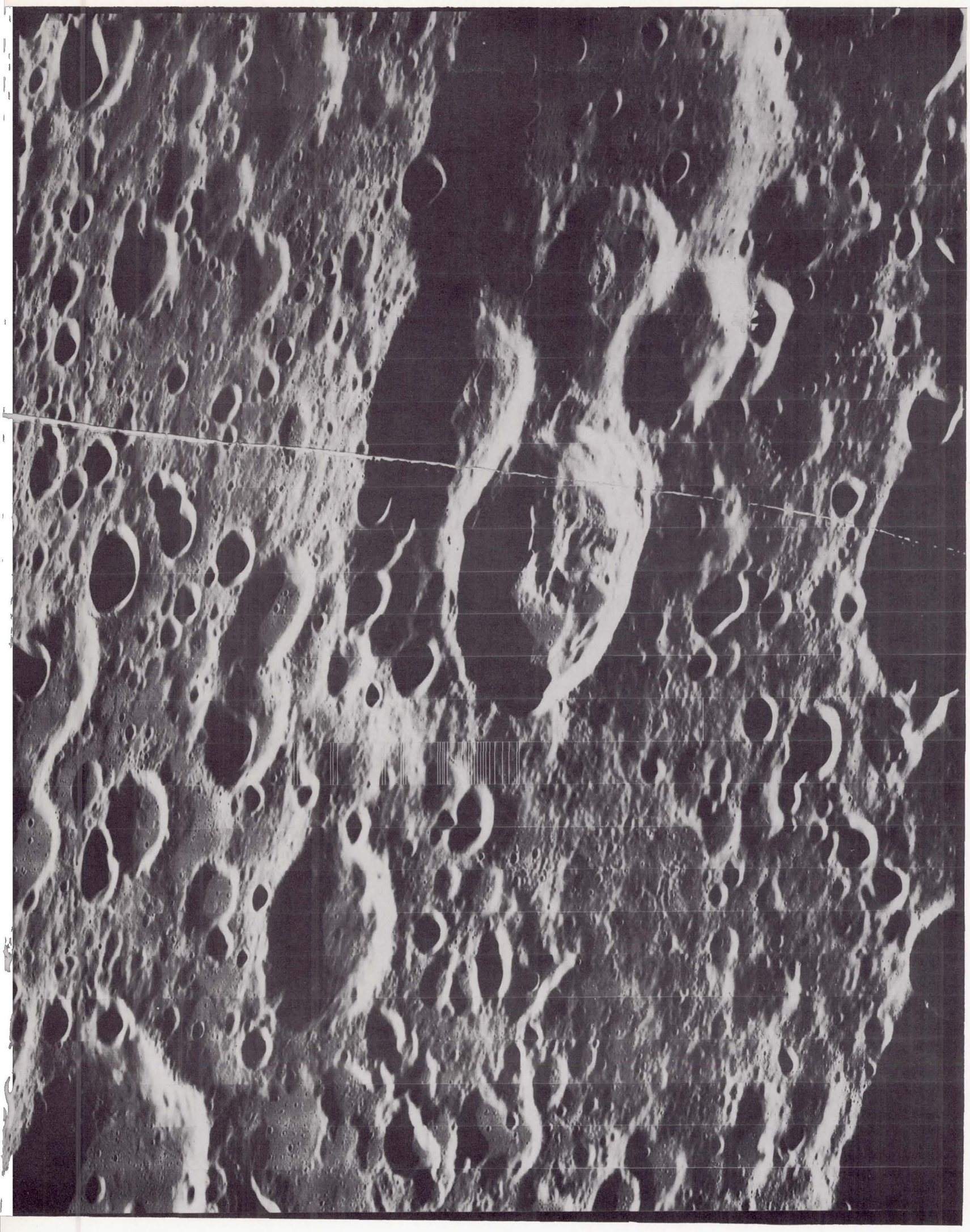
N

PHOTO NOV-39-M

CENTER COORDINATES ..... LONG.–159
LAT. 3
NORTH DEVIATION (DEG.) ..... 3
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) .....125

PLATE 565

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO.V-39-H3

| | | |
|---|---|---|
| ENTER COORDINATES ..... | LONG. | —159.46 |
| | LAT. | 38.71 |
| ORTH DEVIATION (DEG.) ..... | | 3.14 |
| UN ANGLE ..... | | 79.8 |
| PACECRAFT ALTITUDE (KM) ..... | | 1252.42 |

N

1 CENTIMETER ≈ 7 KILOMETERS

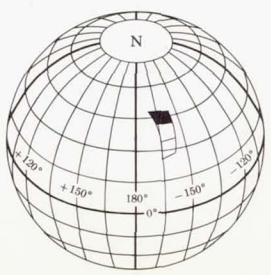
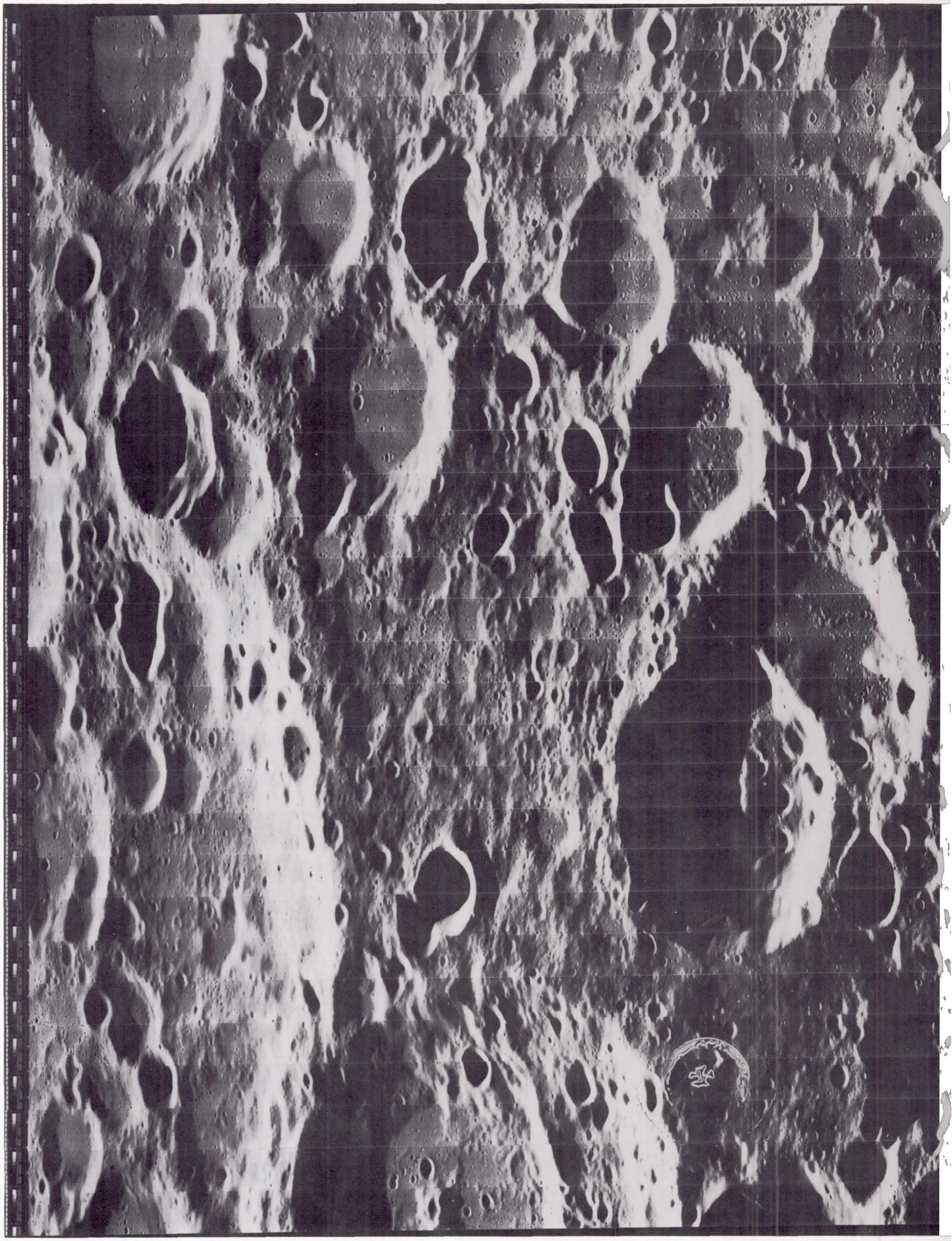
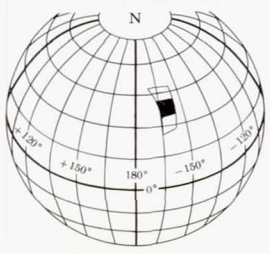



PLATE 566

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 7 KILOMETERS

N

PHOTO NO.V-39-H2

CENTER COORDINATES ..... LONG.–15
LAT. 3
NORTH DEVIATION (DEG.) .....
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 125

PLATE 567

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

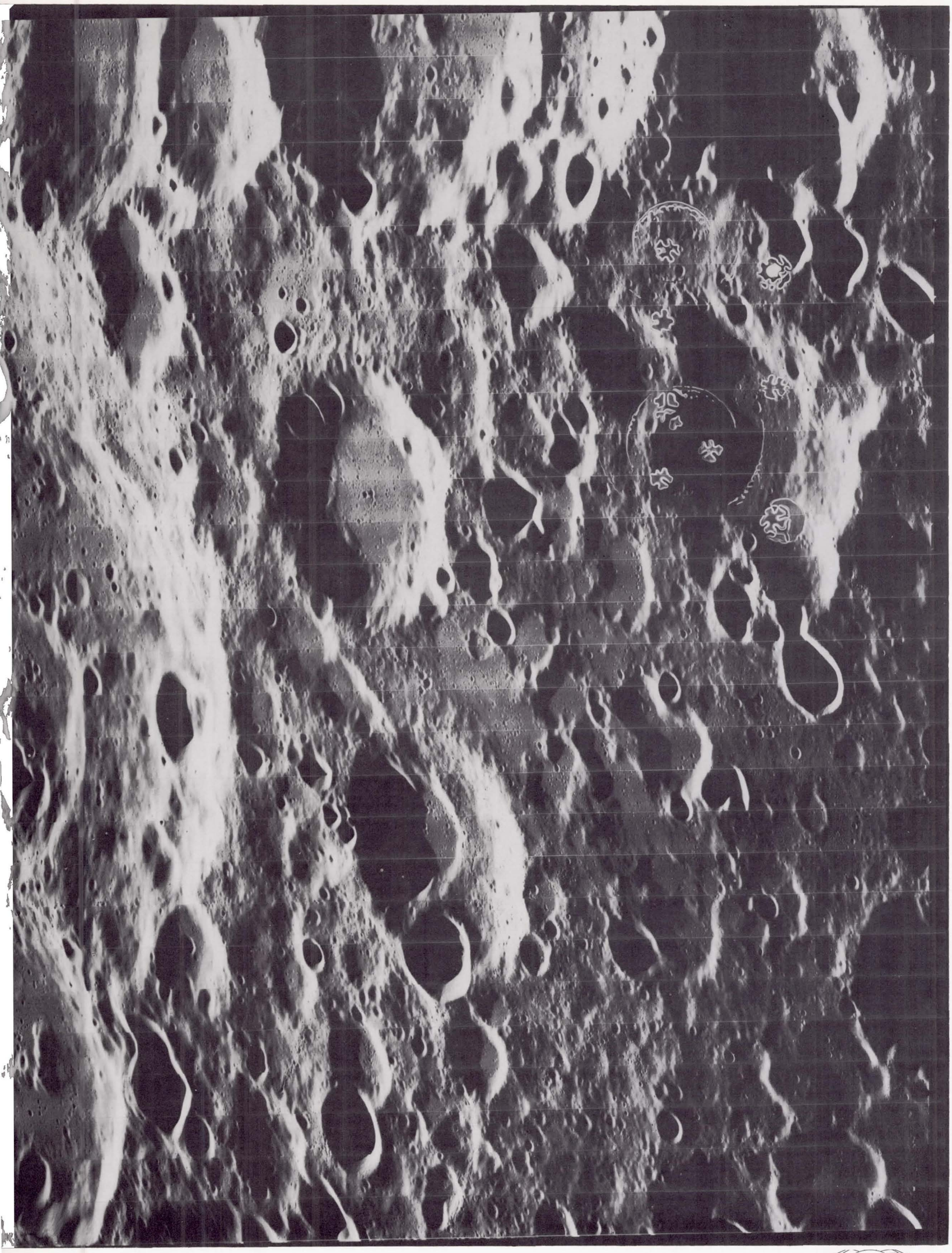


PHOTO NO. V-39-H1

TER COORDINATES ..... LONG.–159.46
LAT. 38.71
RTH DEVIATION (DEG.) ..... 3.14
I ANGLE ..... 79.8
CECRAFT ALTITUDE (KM) .....1252.42

N

1 CENTIMETER ≈ 7 KILOMETERS

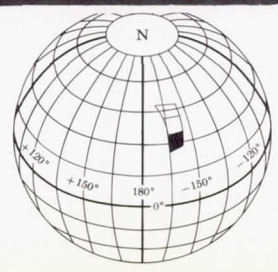
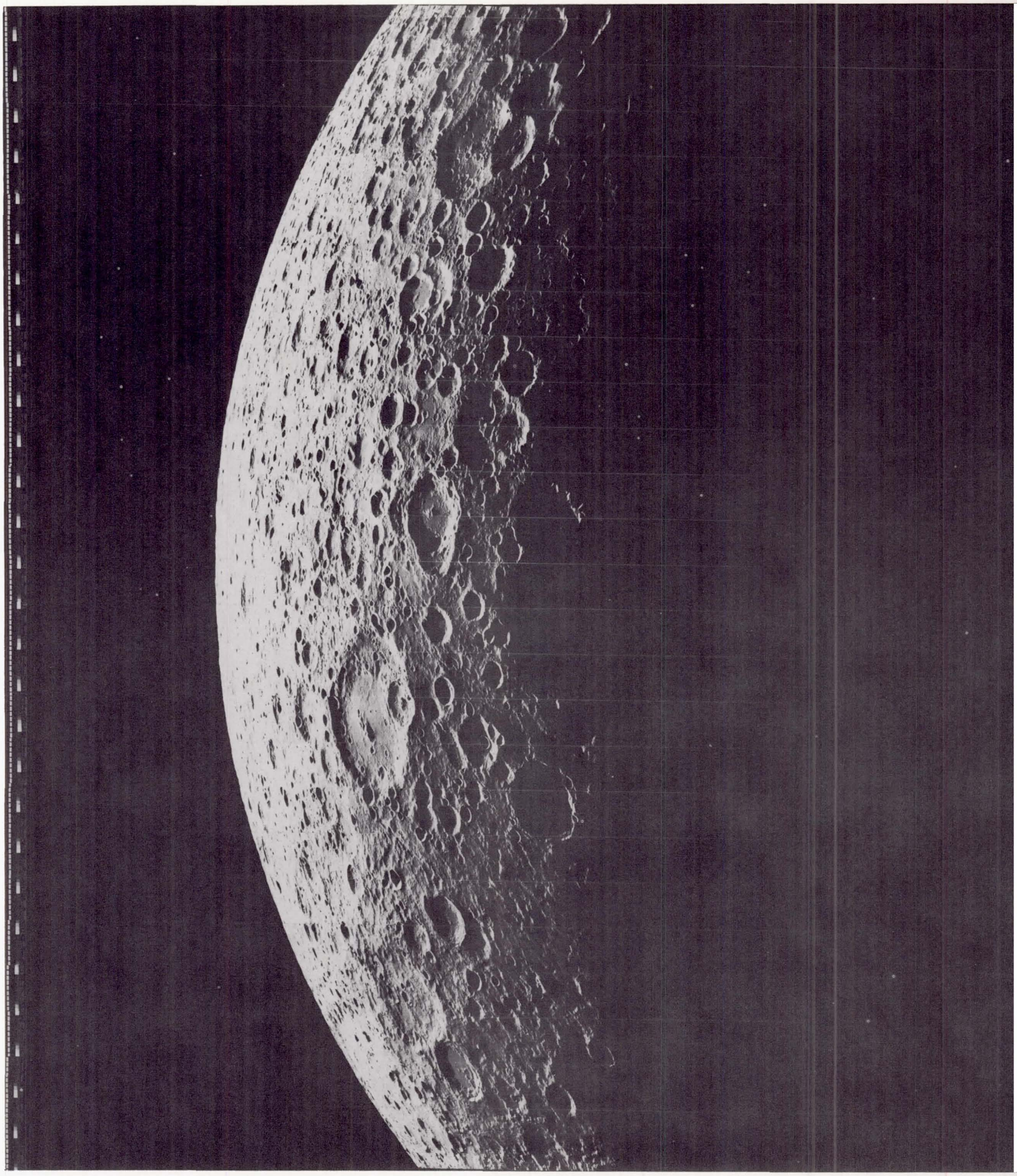
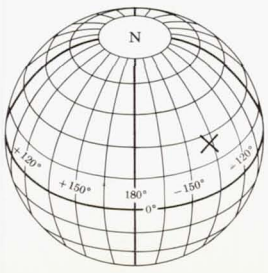



PLATE 568

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 51 KILOMETERS

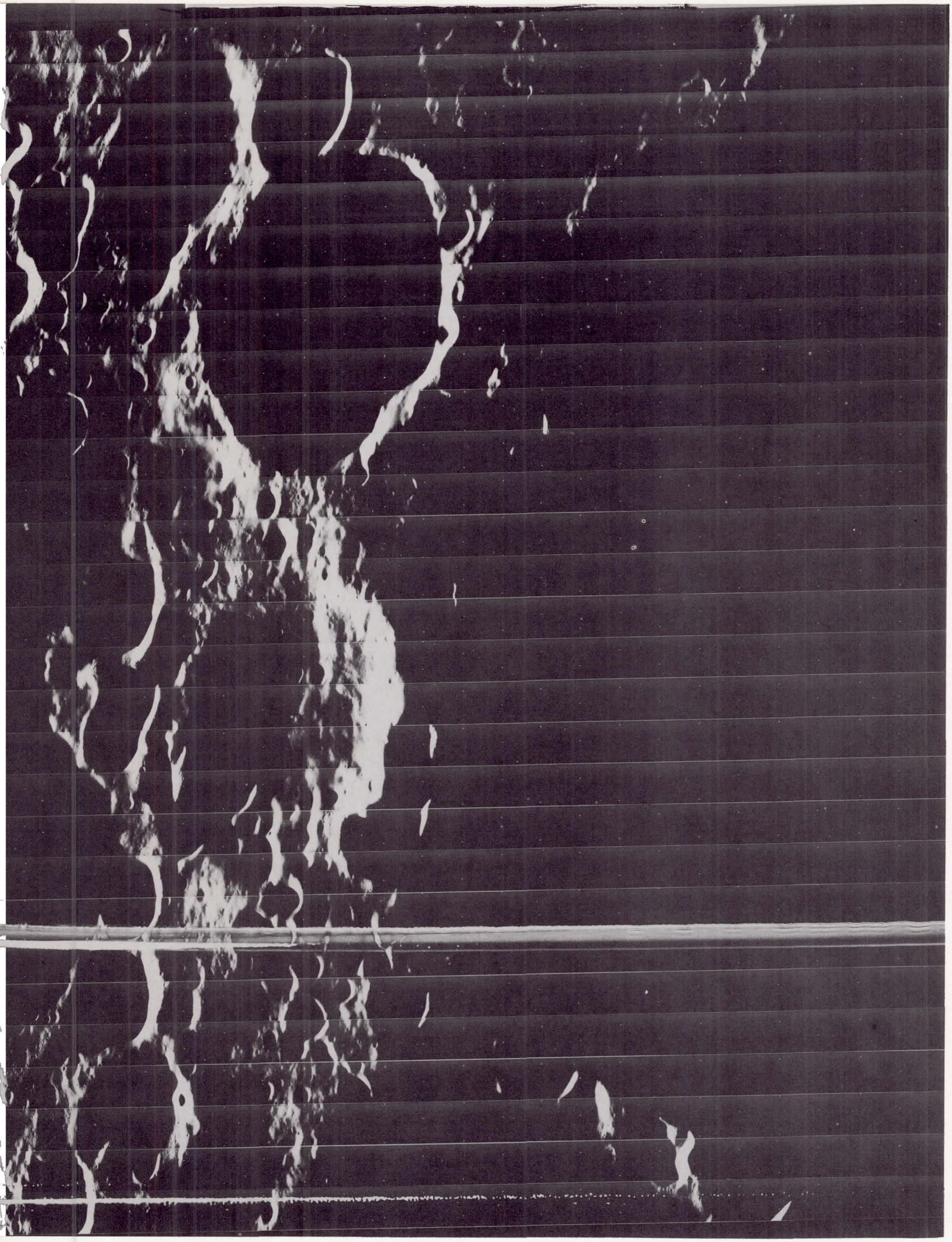
N

PHOTO NO.V-32-M

CENTER COORDINATES ..... LONG.–13
LAT. 2
NORTH DEVIATION (DEG.) ..... 35
SUN ANGLE ..... 
SPACECRAFT ALTITUDE (KM) ..... 139

PLATE 569

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO.V-32-H3

ENTER COORDINATES ..... LONG. -138.13
LAT. 24.81
ORTH DEVIATION (DEG.) ..... 358.56
N ANGLE ..... 89.2
ACECRAFT ALTITUDE (KM) ..... 1396.82

N

1 CENTIMETER ≈ 7 KILOMETERS

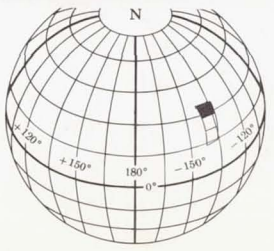
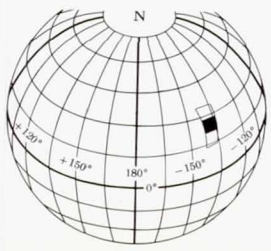



PLATE 570

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




1 CENTIMETER ≈ 7 KILOMETERS

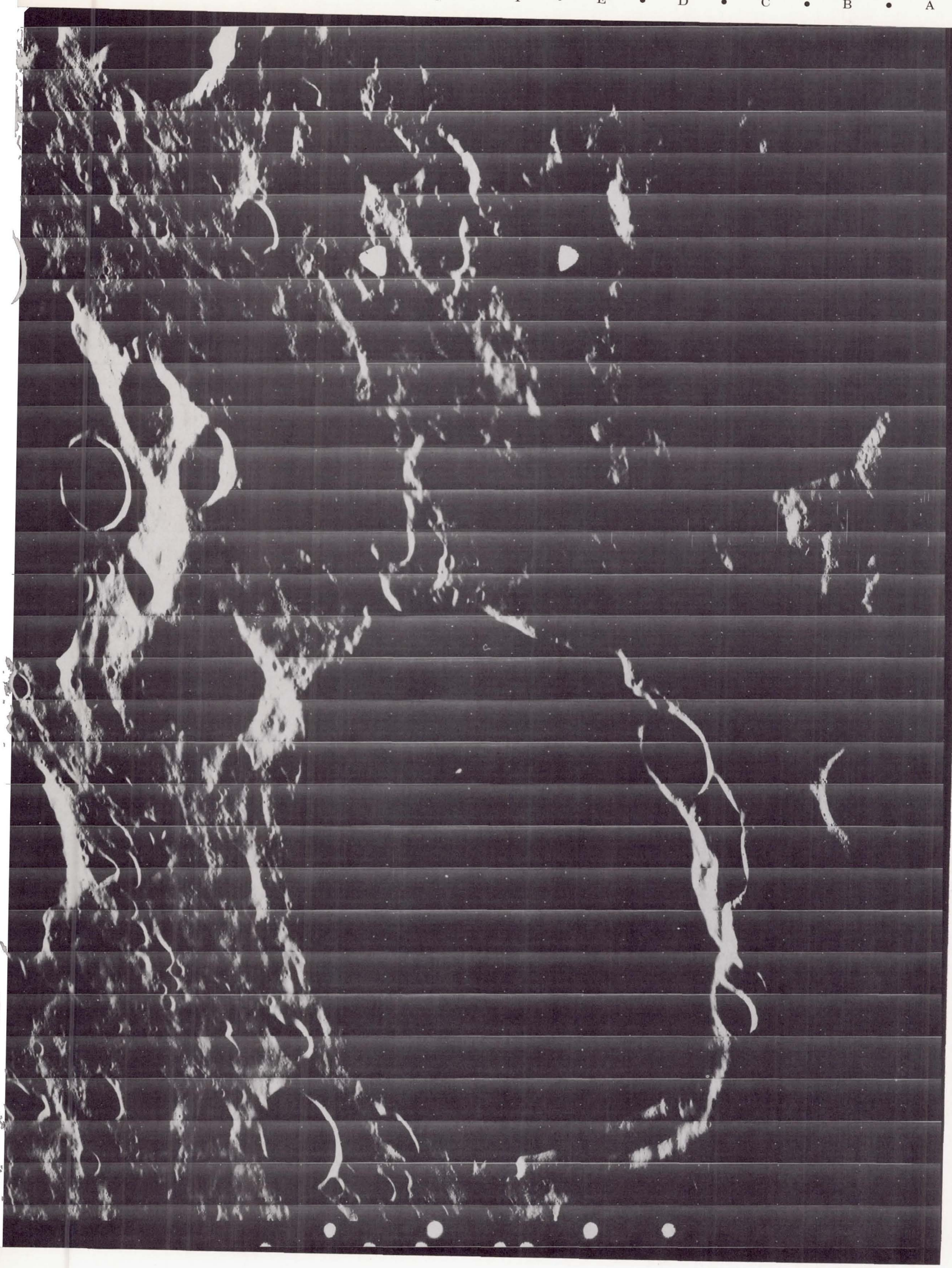
N

PHOTO NO.V-32-H2

CENTER COORDINATES ..... LONG.–138
LAT. 24
NORTH DEVIATION (DEG.) ..... 358
SUN ANGLE ..... 8
SPACECRAFT ALTITUDE (KM) ..... 1396

PLATE 571

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO.V-32-H1

TER COORDINATES ..... LONG.–138.13
LAT. 24.81
TH DEVIATION (DEG.) ..... 358.56
ANGLE ..... 89.2
ECRAFT ALTITUDE (KM) ..... 1396.82

N

1 CENTIMETER ≈ 7 KILOMETERS

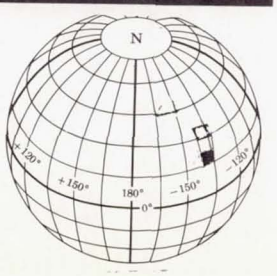
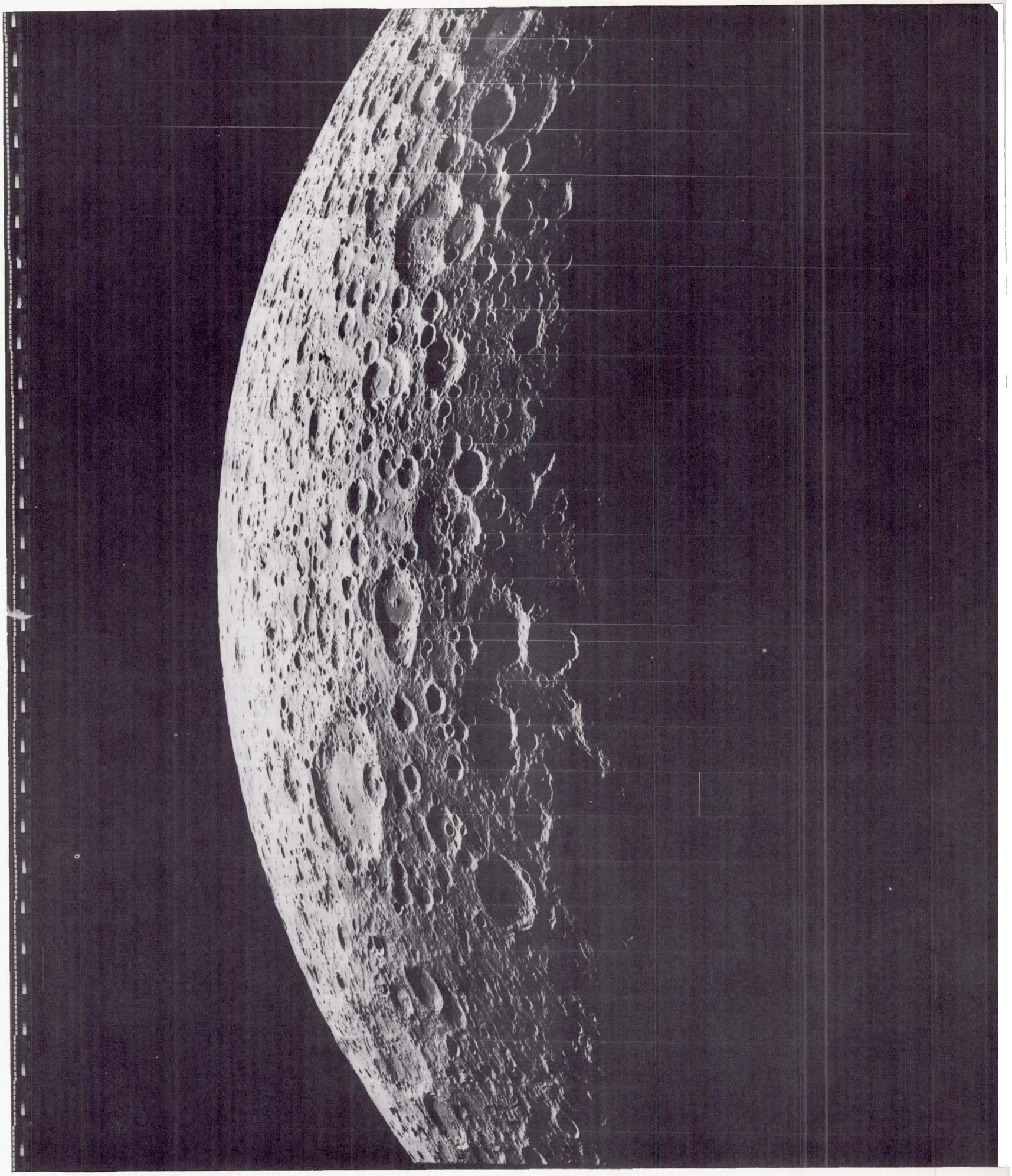
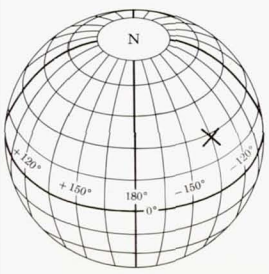



PLATE 572

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 50 KILOMETERS

N

PHOTO NO.V-31-M

CENTER COORDINATES ..... LONG.–13
LAT. 5
NORTH DEVIATION (DEG.) ..... 33
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 13

PLATE 573

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

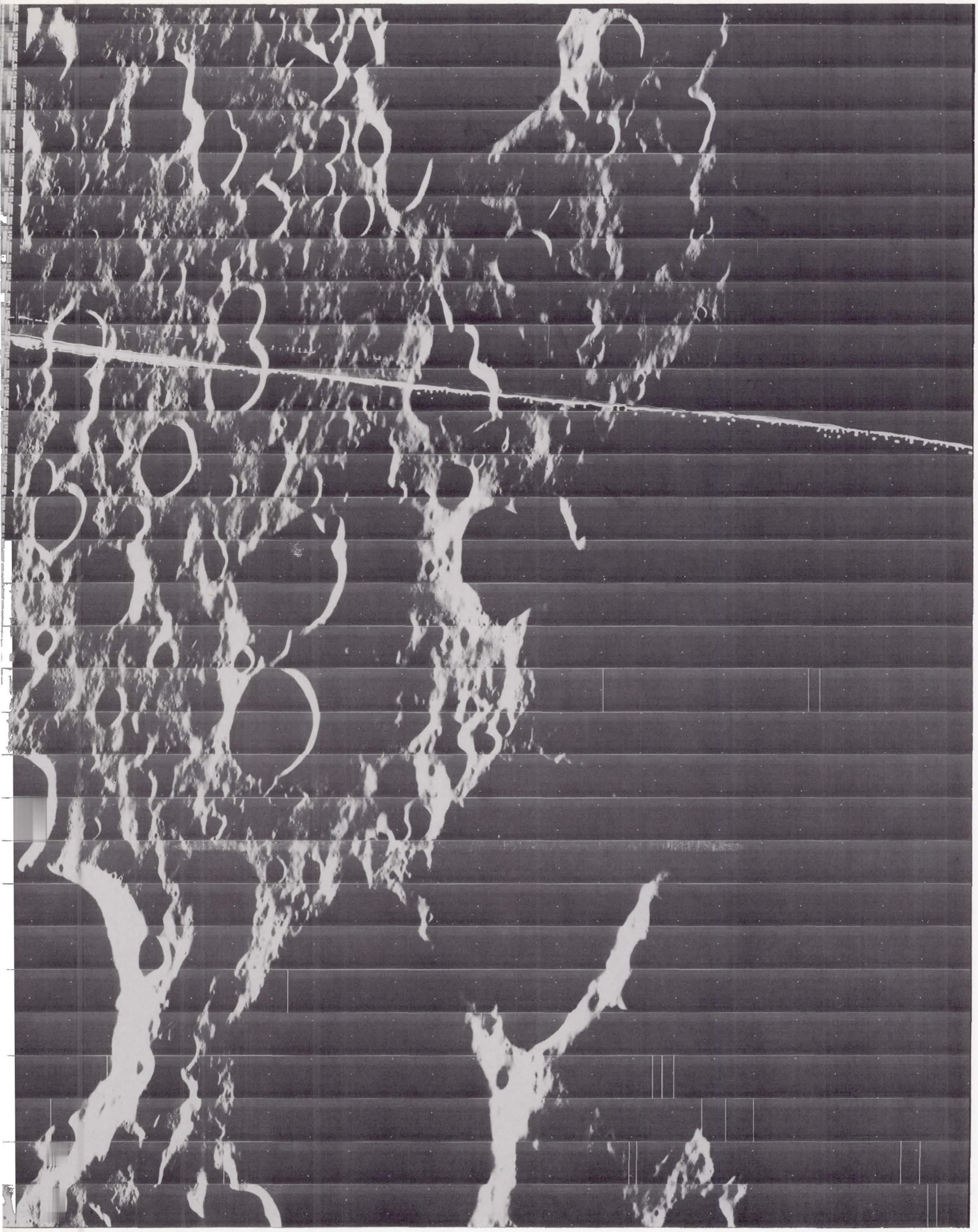


PHOTO NO. V-31-H3

ENTER COORDINATES ..... LONG—135.74
LAT. 27.92
ORTH DEVIATION (DEG.) ..... 359.11
JN ANGLE ..... 88.3
PACECRAFT ALTITUDE (KM) ..... 1363.52

N

1 CENTIMETER ≈ 7 KILOMETERS

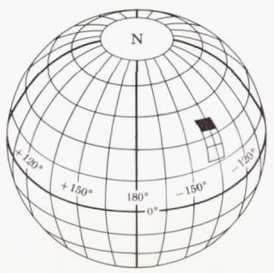
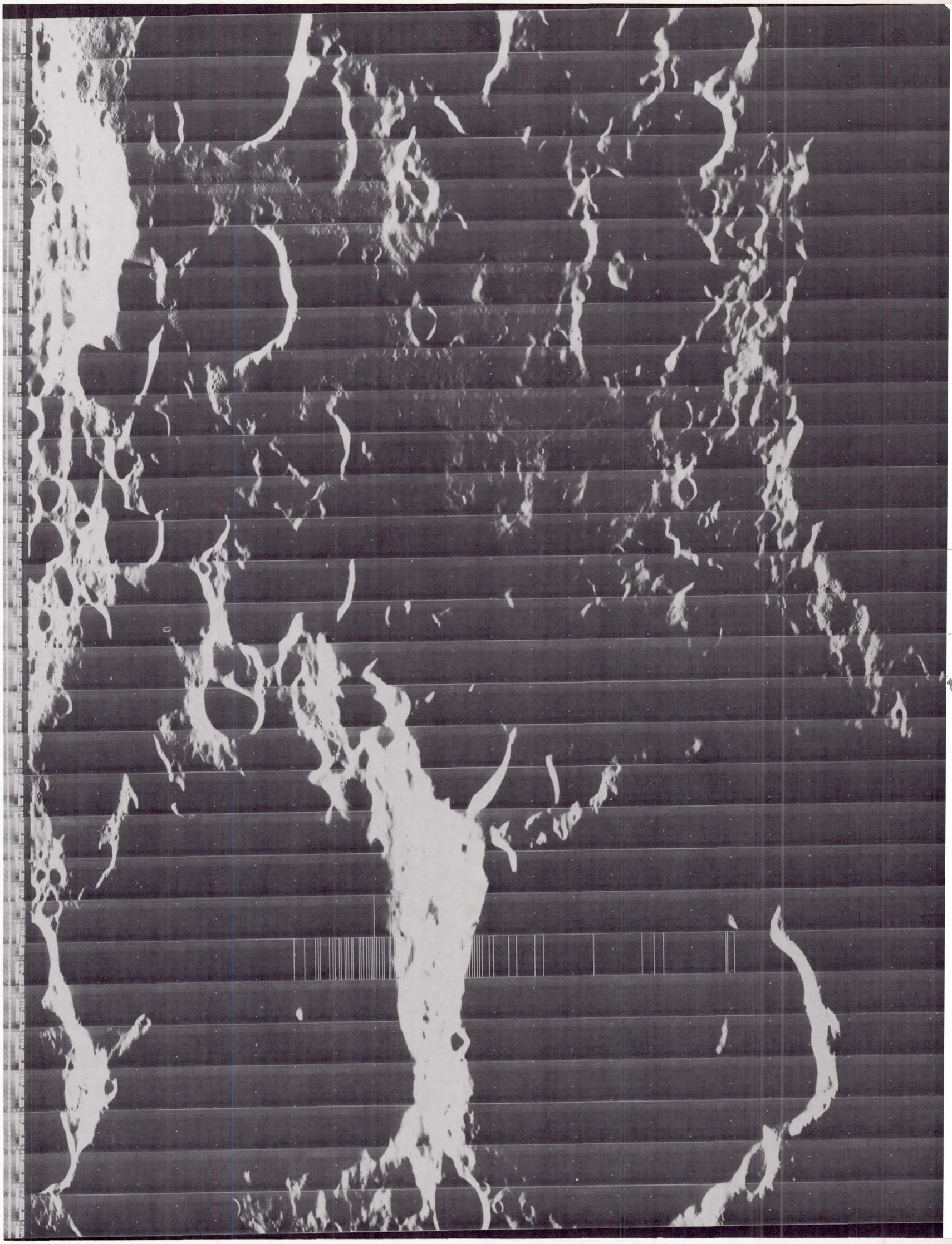
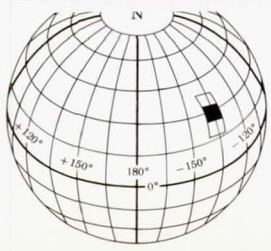



PLATE 574

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 5 KILOMETERS

N

PHOTO NO.V-31-H2

CENTER COORDINATES ..... LONG–13
LAT. 2
NORTH DEVIATION (DEG.) ..... 35
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 136

PLATE 575

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

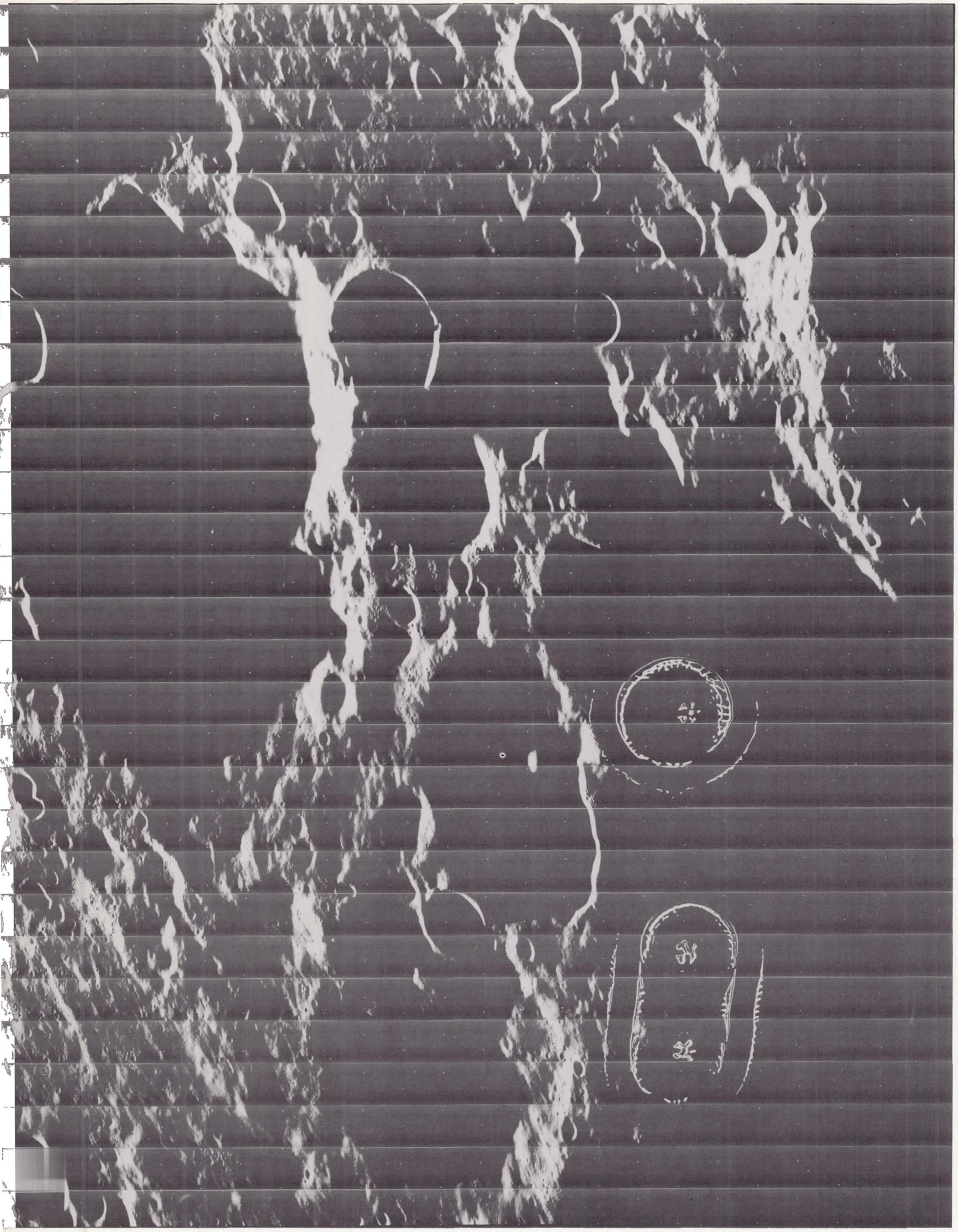


PHOTO NO. V-31-H1

ENTER COORDINATES ..... LONG. −135.74
LAT. 27.92
ORTH DEVIATION (DEG.) ..... 359.11
IN ANGLE ..... 88.3
PACECRAFT ALTITUDE (KM) ..... 1363.52

N

1 CENTIMETER ≈ 5 KILOMETERS

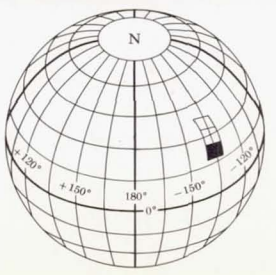
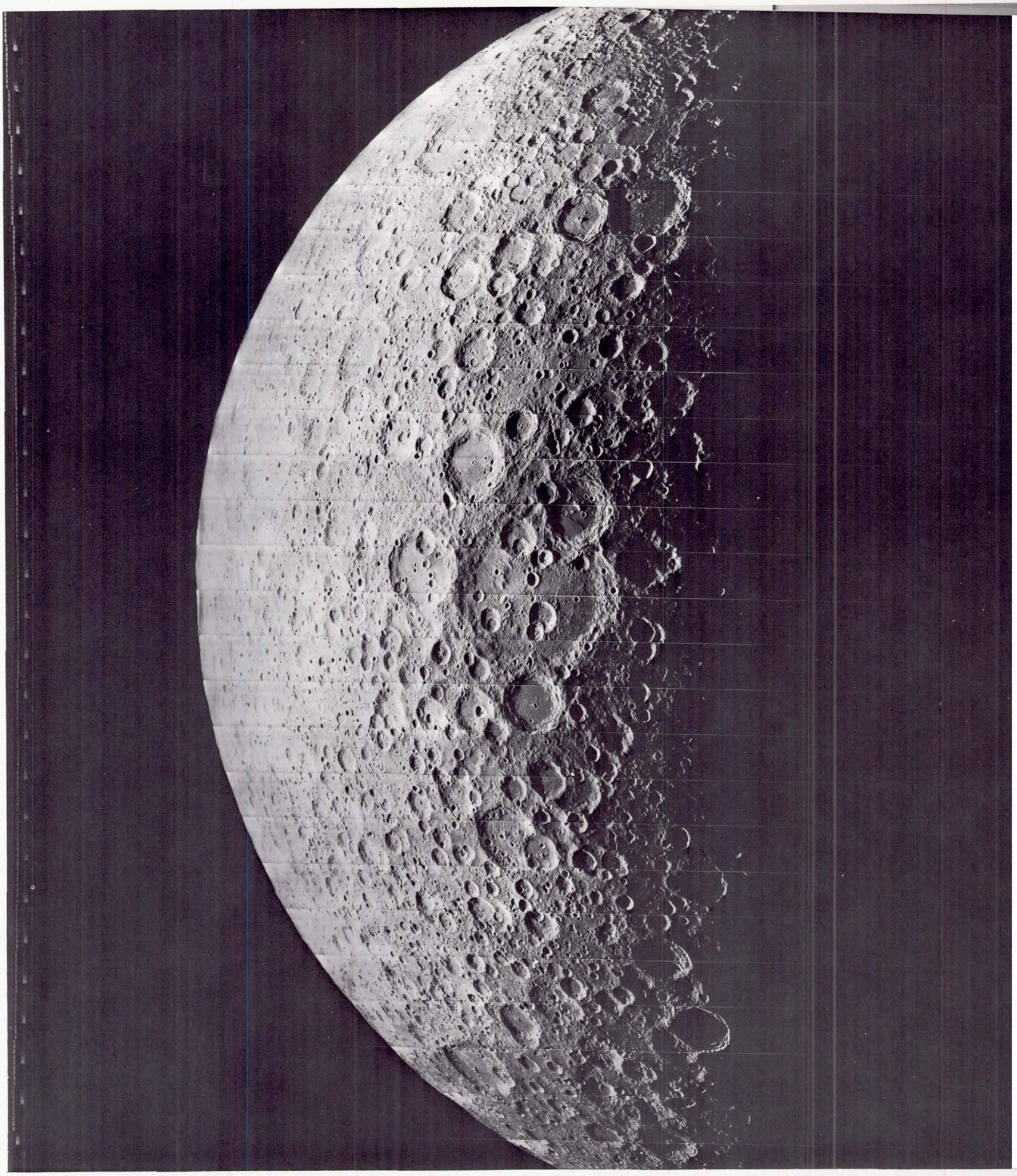
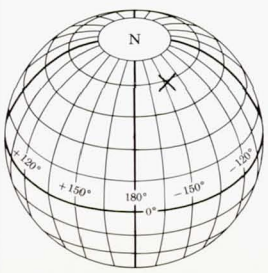



PLATE 576

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 84 KILOMETERS

N

PHOTO NO. V-29-M

CENTER COORDINATES ..... LONG. −147
LAT. 59
NORTH DEVIATION (DEG.) ..... 13
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 2543

PLATE 577

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

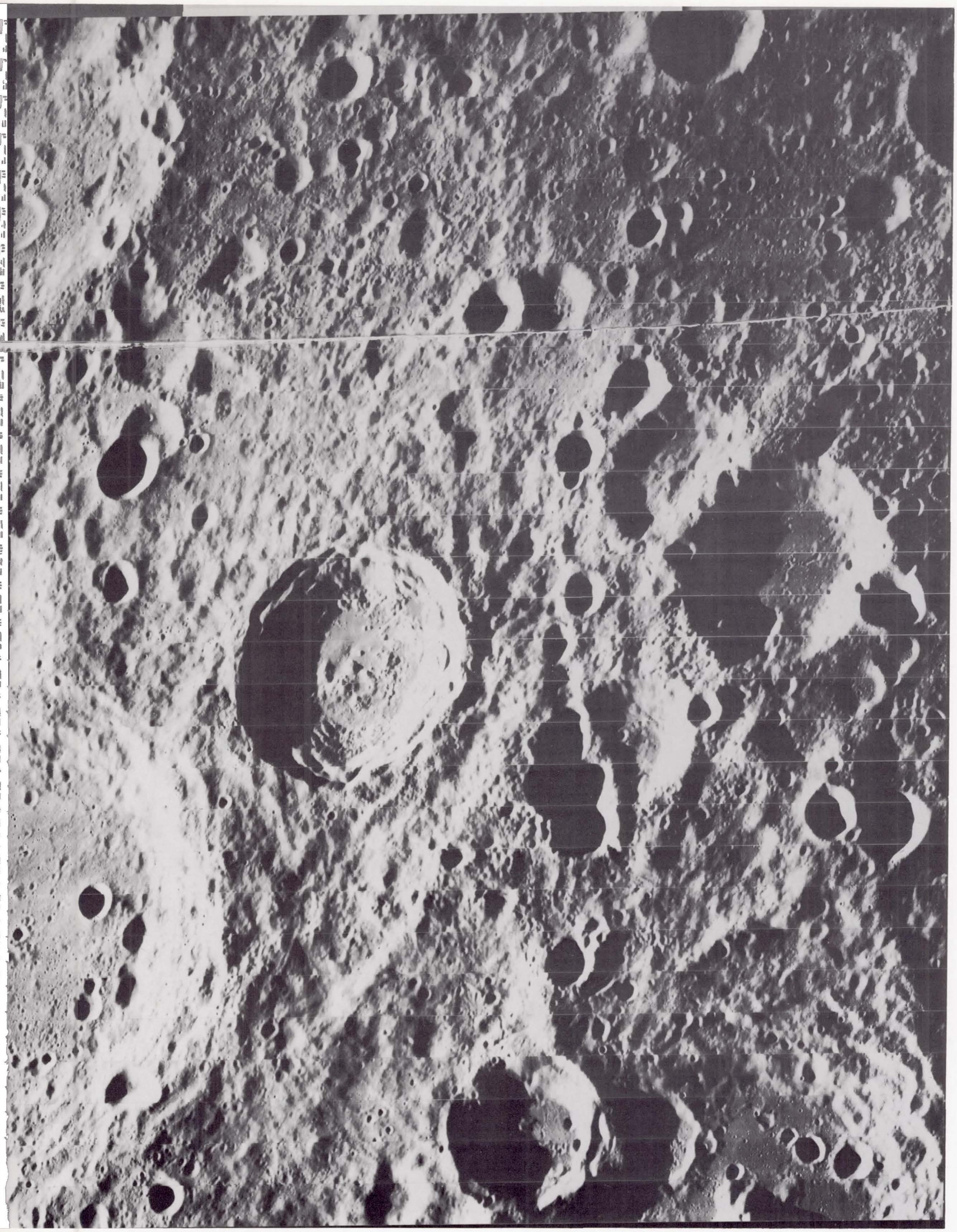


PHOTO NO. V-29-H3

NTER COORDINATES ..... LONG –147.18
LAT. 59.12
RTH DEVIATION (DEG.) ..... 12.99
N ANGLE ..... 79.3
ACECRAFT ALTITUDE (KM) ..... 2548.18

N

1 CENTIMETER ≈ 11 KILOMETERS

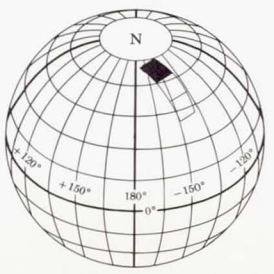
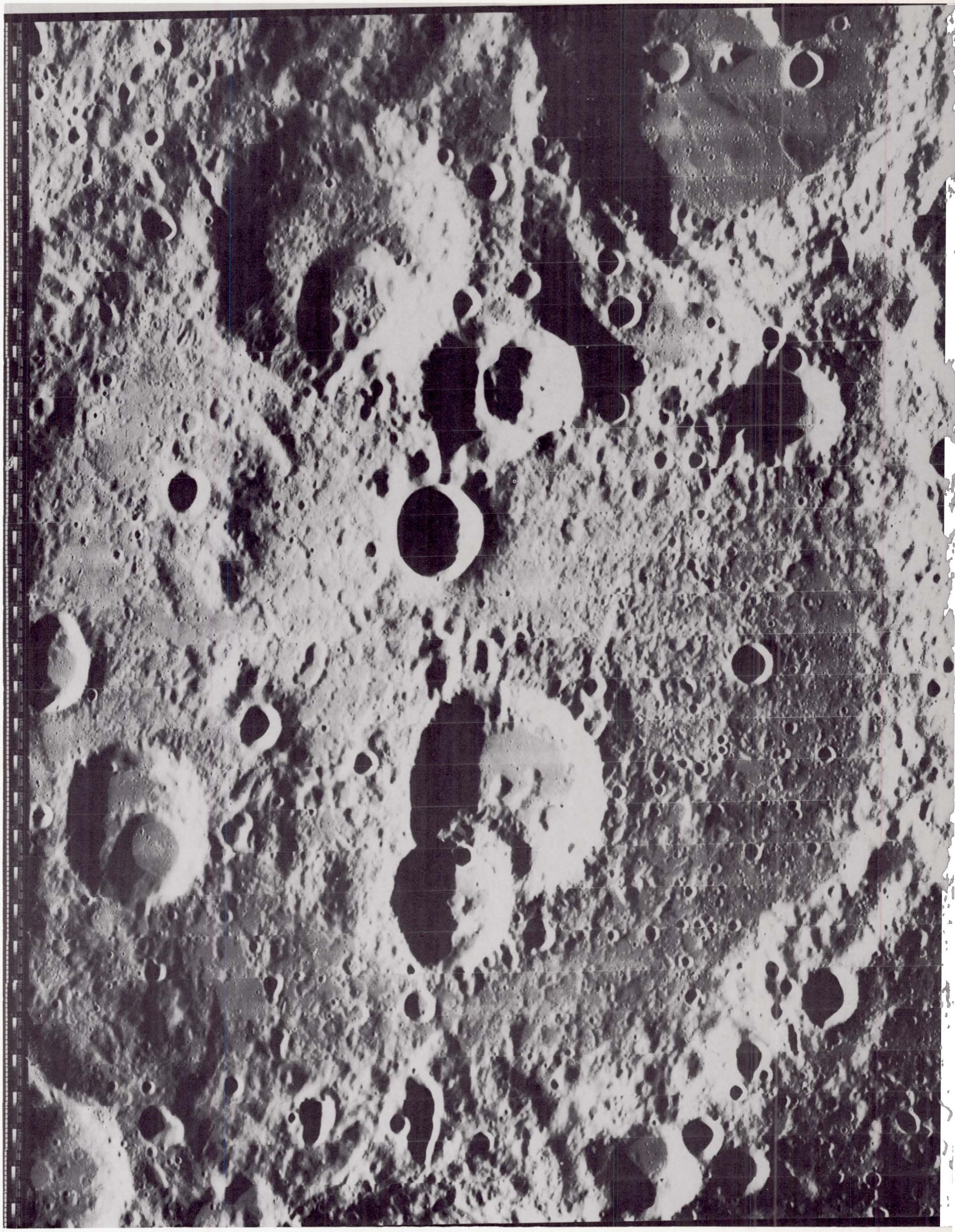
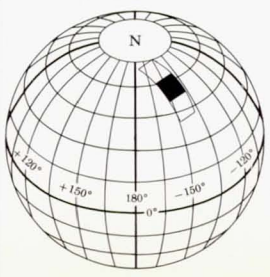



PLATE 578

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 22 KILOMETERS

N

PHOTO NO.V-29-H2

CENTER COORDINATES ..... LONG.–14
LAT. 5
NORTH DEVIATION (DEG.) ..... 1
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 254

PLATE 579

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-29-H1

ENTER COORDINATES ..... LONG. –147.18
LAT. 59.12
ORTH DEVIATION (DEG.) ..... –12.99
UN ANGLE ..... 79.3
PACECRAFT ALTITUDE (KM) ..... 2548.18

N

1 CENTIMETER ≈ 22 KILOMETERS

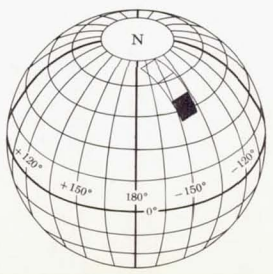
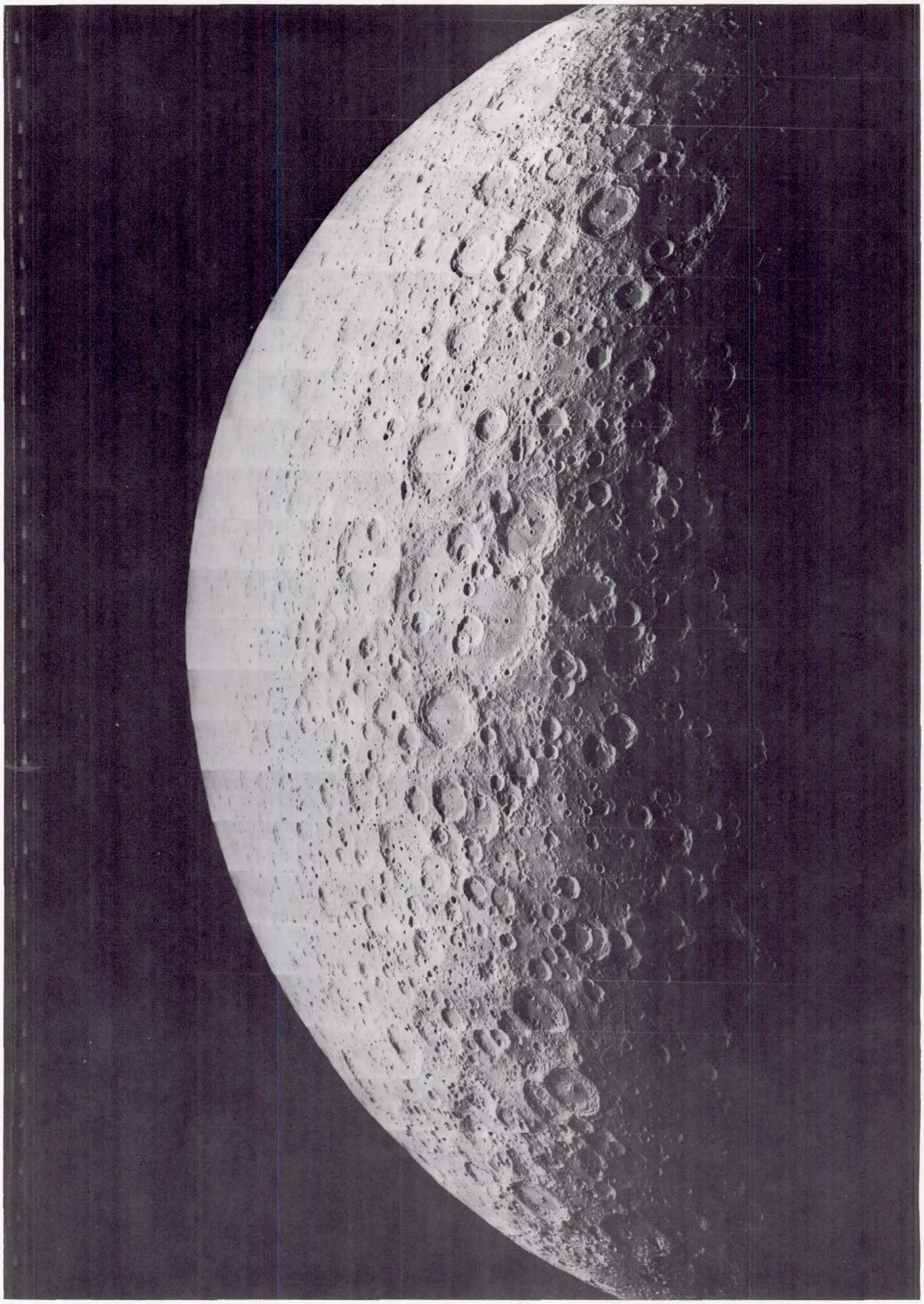
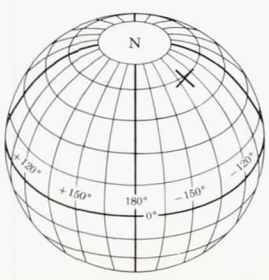



PLATE 580

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 84 KILOMETERS

N

PHOTO NO.V-25-M

CENTER COORDINATES ..... LONG–129.
LAT. 59.
NORTH DEVIATION (DEG.) ..... 9.
SUN ANGLE ..... 8
SPACECRAFT ALTITUDE (KM) ..... 2551.

PLATE 581

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

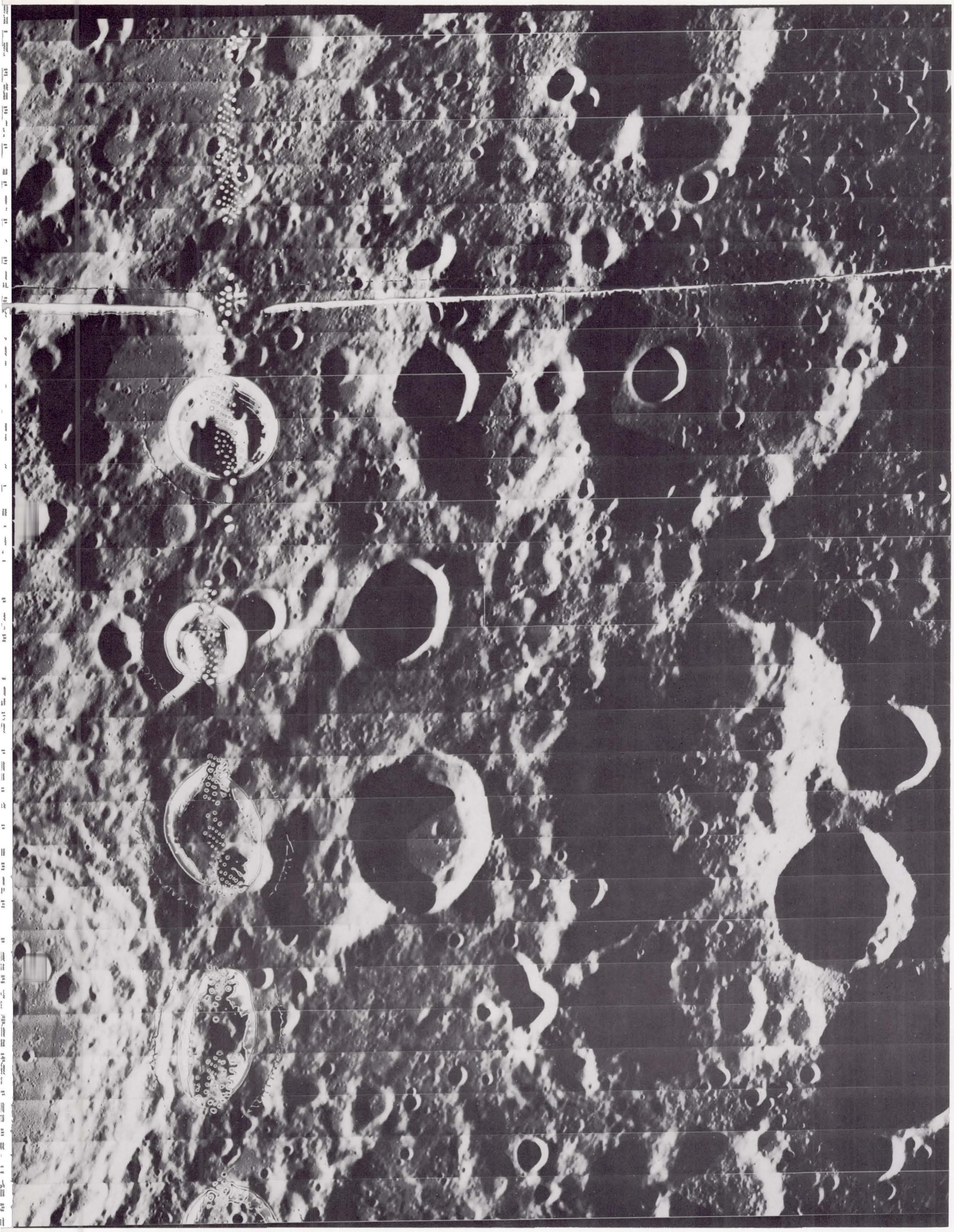


PHOTO NO.V-25-H3

NTER COORDINATES ..... LONG.-129.77
LAT. 59.08
RTH DEVIATION (DEG.) ..... 9.38
N ANGLE ..... 81.7
ACECRAFT ALTITUDE (KM) .....2551.47

N

1 CENTIMETER ≈ 11 KILOMETERS

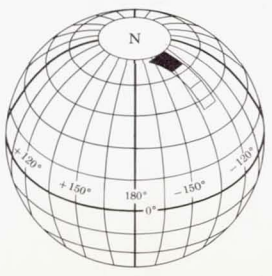
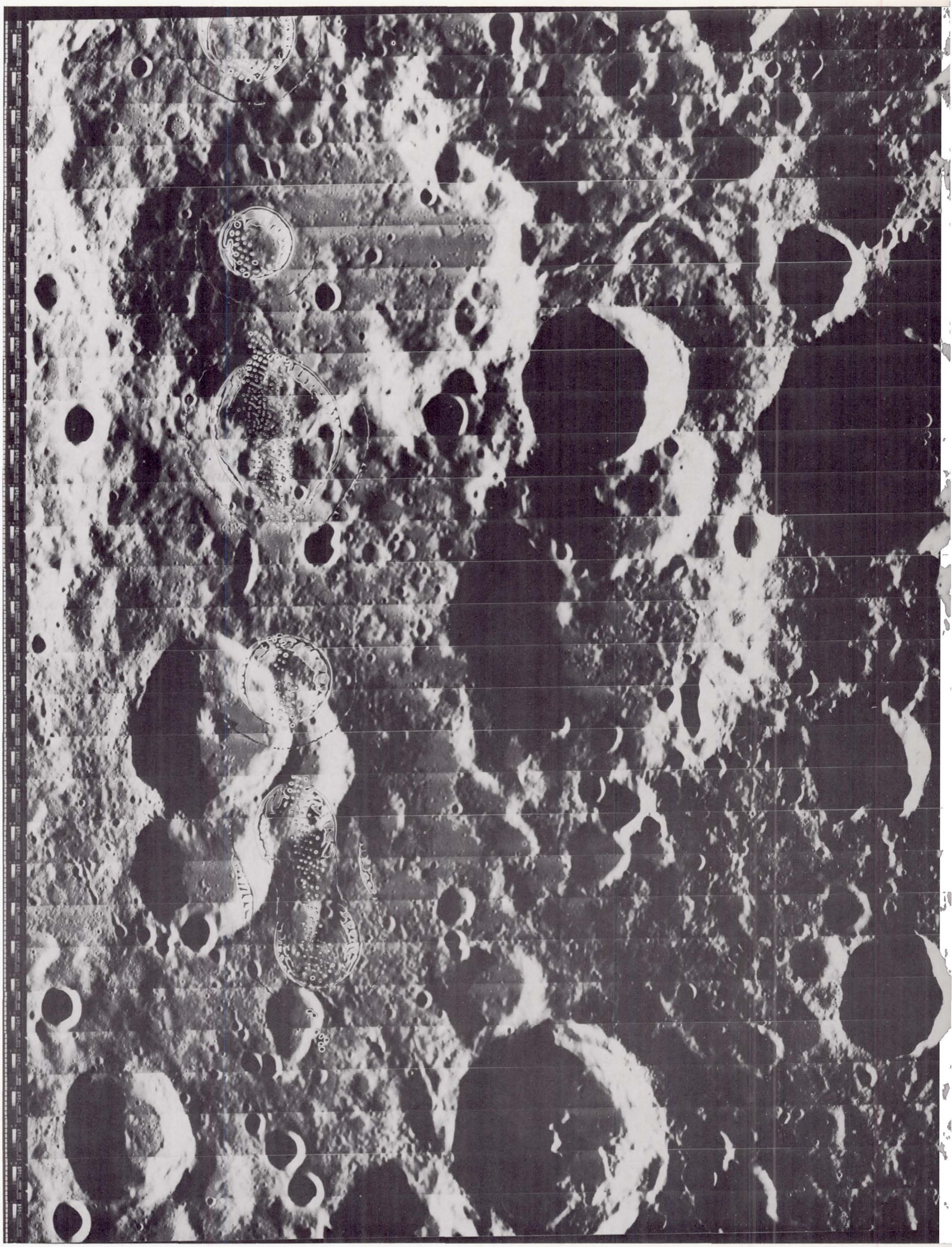
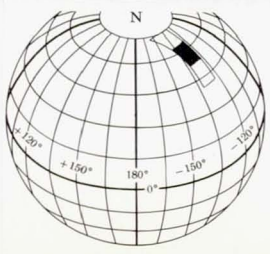



PLATE 582

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO.V-25-H2

CENTER COORDINATES ..... LONG.–12
LAT. 5
NORTH DEVIATION (DEG.) ..... 9
SUN ANGLE ..... 
SPACECRAFT ALTITUDE (KM) .....255

PLATE 583

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

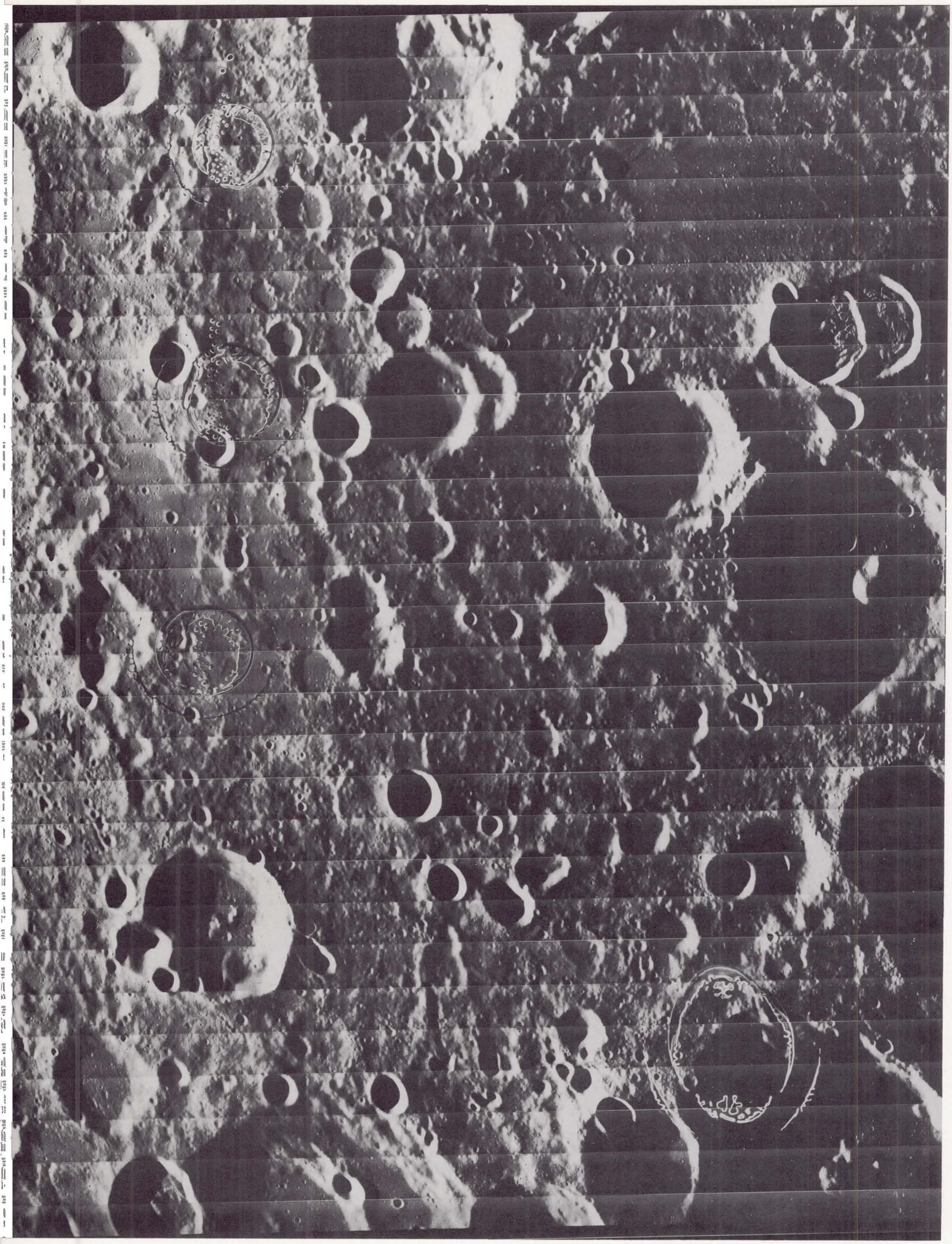


PHOTO NO.V-25-H1

NTER COORDINATES ..... LONG.-129.77
LAT. 59.08
RTH DEVIATION (DEG.) ..... 9.38
N ANGLE ..... 81.7
ACECRAFT ALTITUDE (KM) ..... 2551.47

N

1 CENTIMETER ≈ 11 KILOMETERS

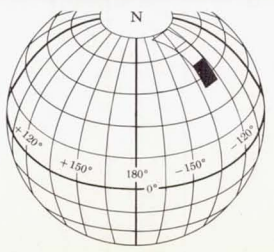
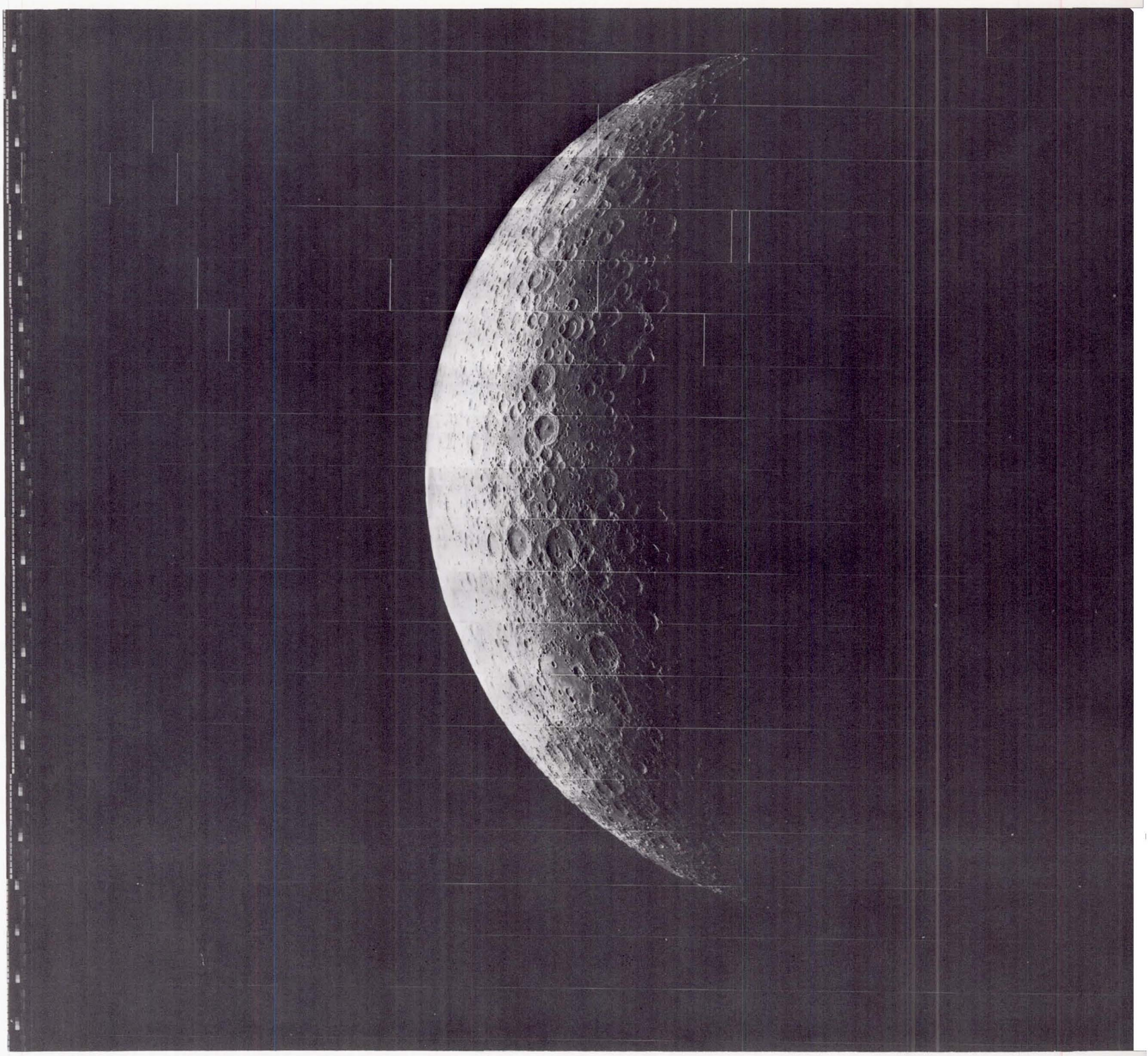
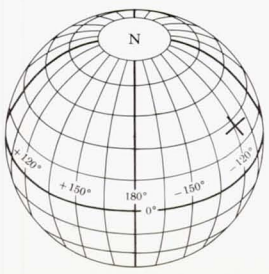



PLATE 584

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 166 KILOMETERS

N

PHOTO NO. V-24-M

CENTER COORDINATES ..... LONG. -12
LAT. 2
NORTH DEVIATION (DEG.) .....
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 500

PLATE 585

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-24-H3

ENTER COORDINATES ..... LONG.–120.17
LAT. 26.54
ORTH DEVIATION (DEG.) ..... 1.31
N ANGLE ..... 82.3
PACECRAFT ALTITUDE (KM) ..... 5008.70

N

1 CENTIMETER ≈ 22 KILOMETERS

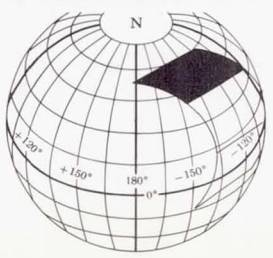
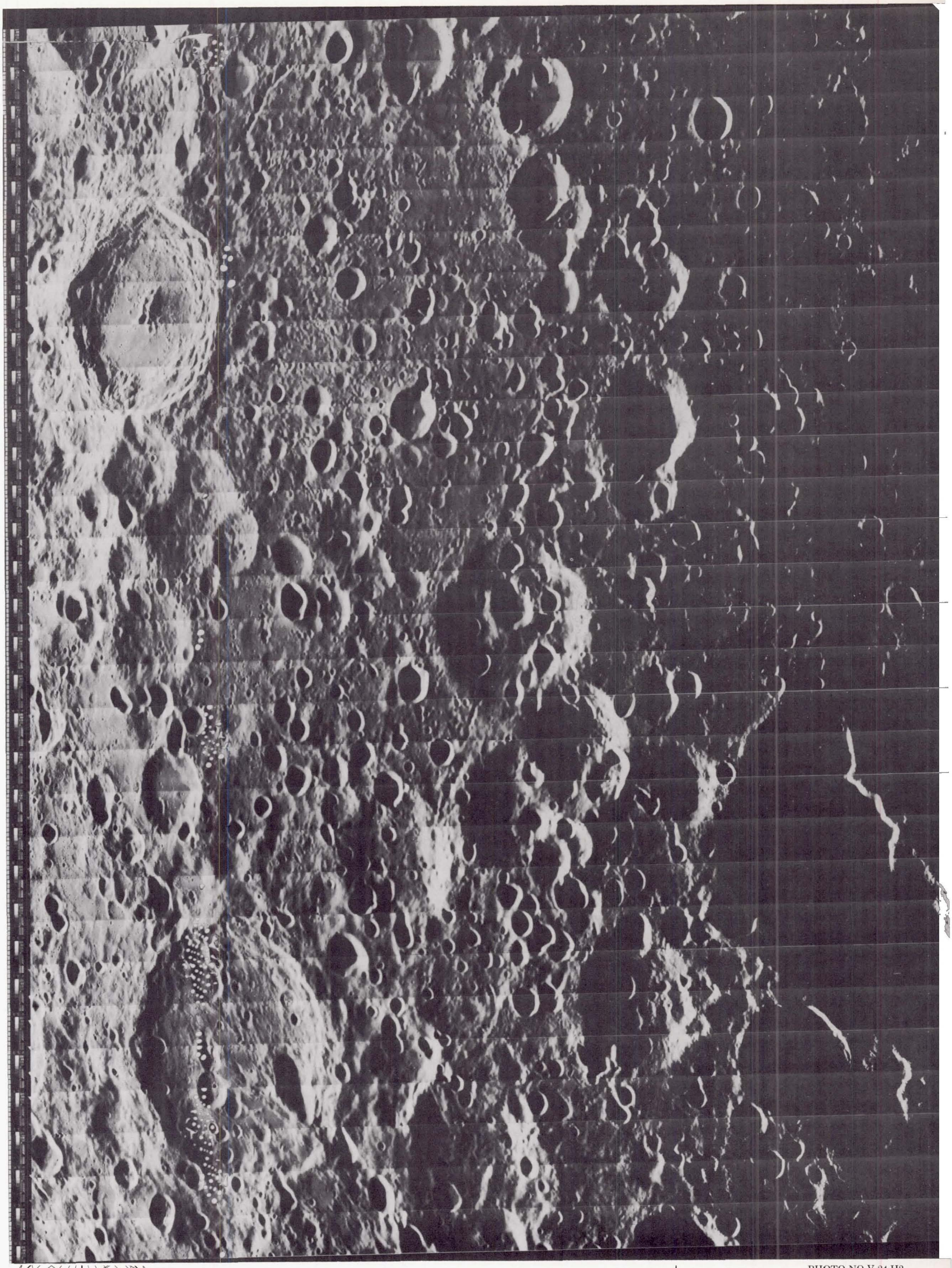
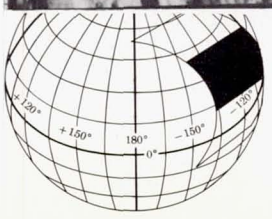



PLATE 586

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 22 KILOMETERS

N

PHOTO NO. V-24-H2

CENTER COORDINATES ..... LONG. −12
LAT. 2
NORTH DEVIATION (DEG.) .....
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 500

PLATE 587

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

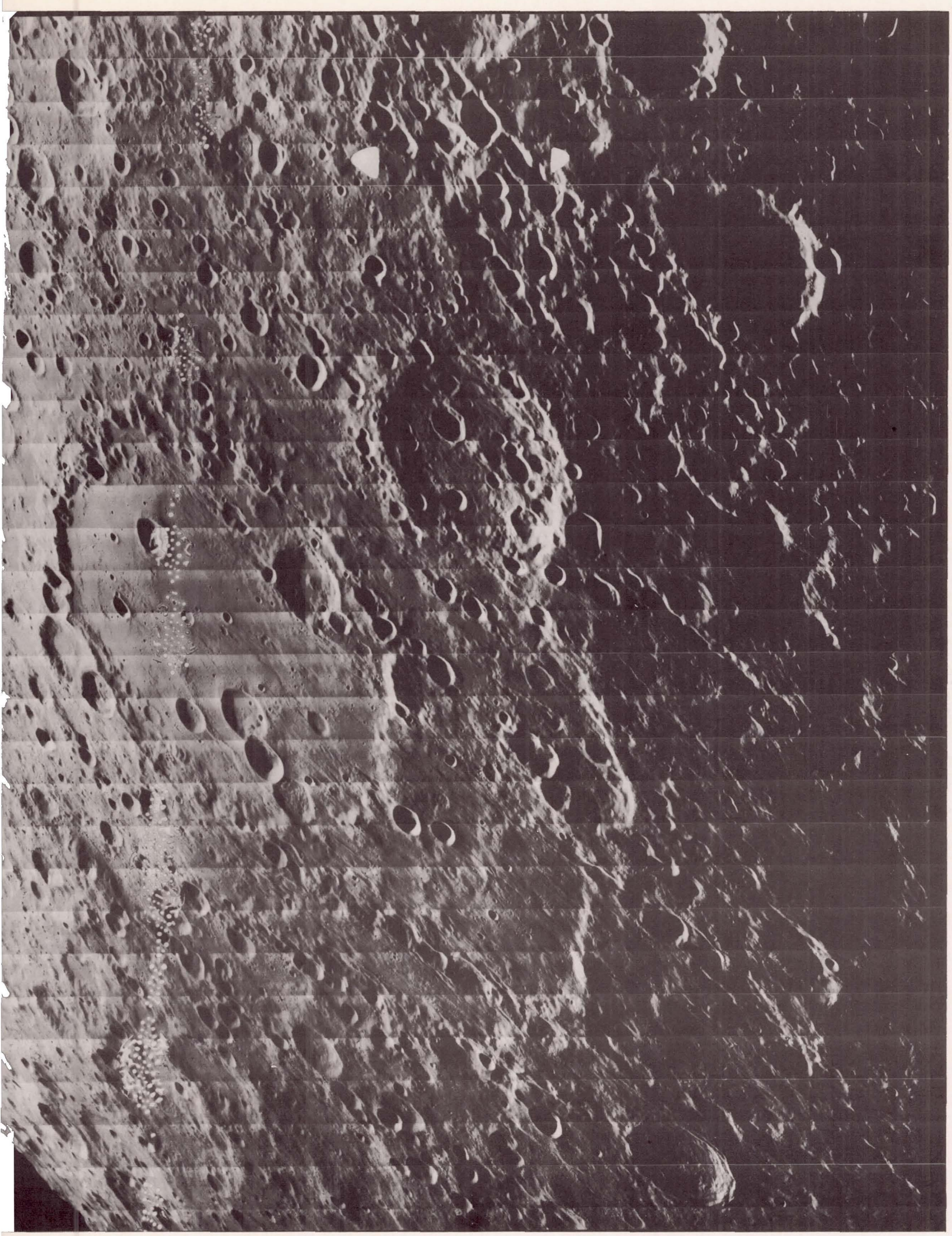


PHOTO NO.V-24-H1

| | |
|---|---|
| ITER COORDINATES ..... | LONG.–120.17 |
| | LAT. 26.54 |
| RTH DEVIATION (DEG.) ..... | 1.31 |
| N ANGLE ..... | 82.3 |
| ECRAFT ALTITUDE (KM) ..... | 5008.70 |

N

1 CENTIMETER ≈ 22 KILOMETERS

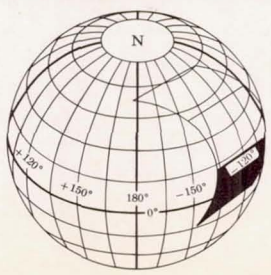
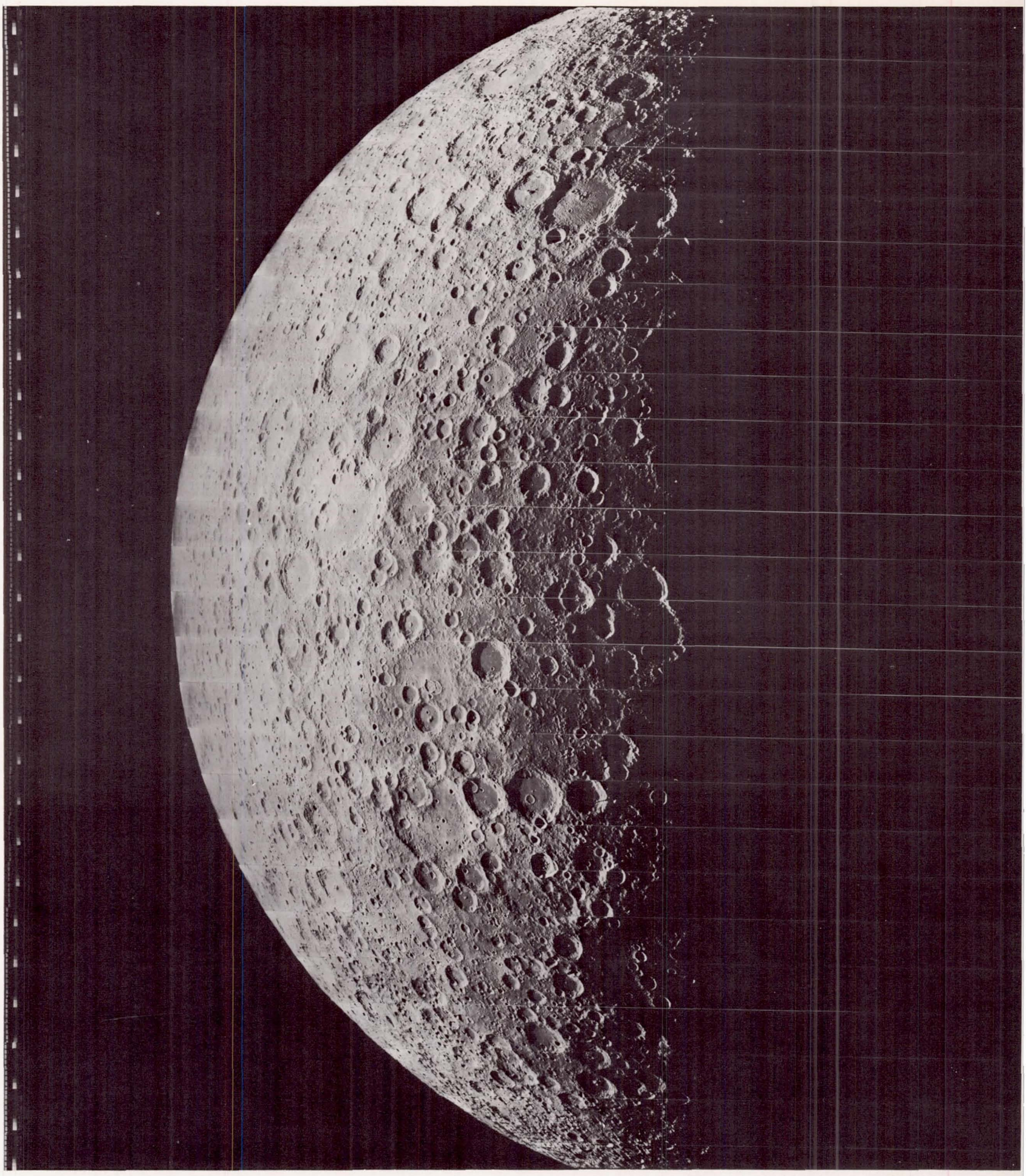
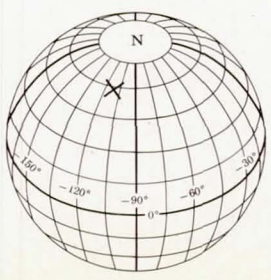



PLATE 588

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 87 KILOMETERS

N

PHOTO NO.V-8-M

CENTER COORDINATES ..... LONG.-1
LAT.
NORTH DEVIATION (DEG.) .....
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) .....26

PLATE 589

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

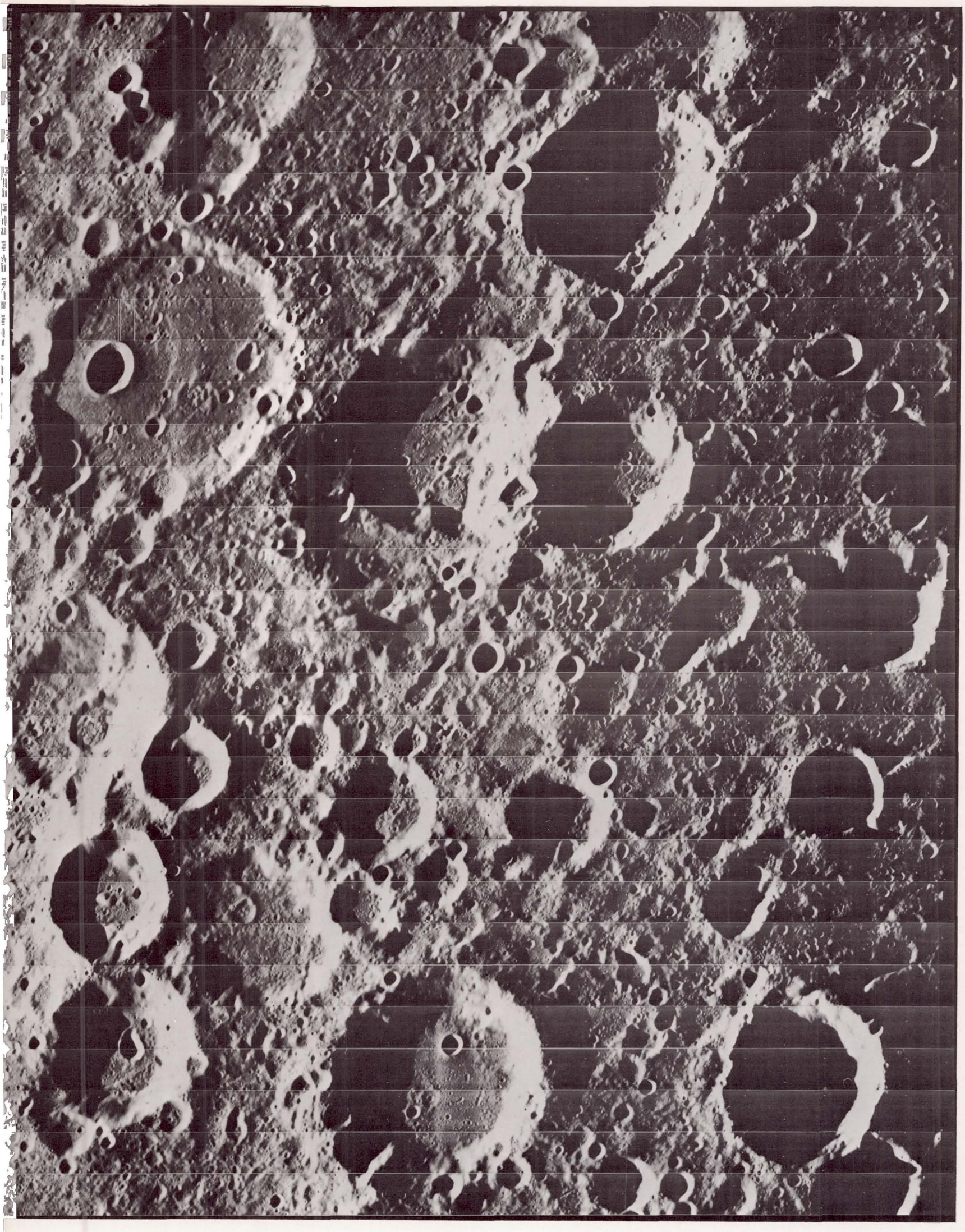


PHOTO NO. V-6-H3

ENTER COORDINATES ..... LONG. -111.66
LAT. 59.63
ORTH DEVIATION (DEG.) ..... 9.79
N ANGLE ..... 82.3
ACECRAFT ALTITUDE (KM) ..... 2648.36

N

1 CENTIMETER ≈ 11 KILOMETERS

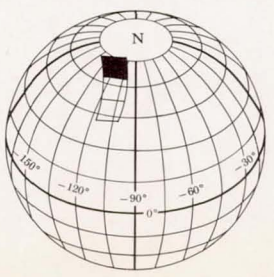
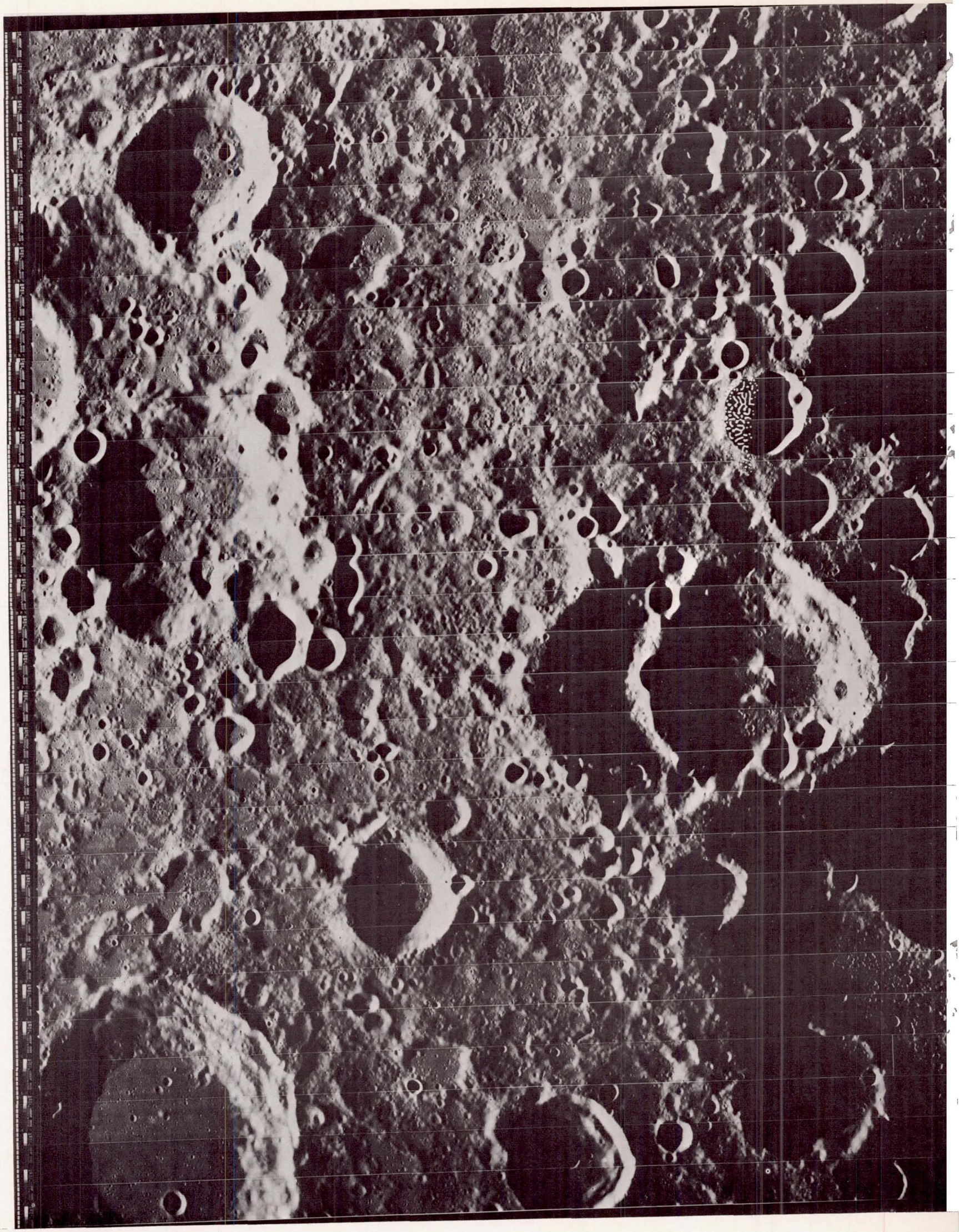
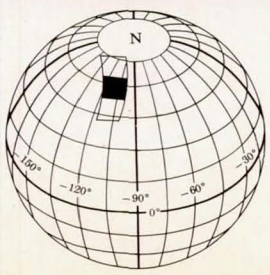



PLATE 590

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 11 KILOMETERS

N

PHOTO NO.V-6-H2

CENTER COORDINATES ..... LONG.–11
LAT. 5
NORTH DEVIATION (DEG.) ..... 9
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) .....264

PLATE 591

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

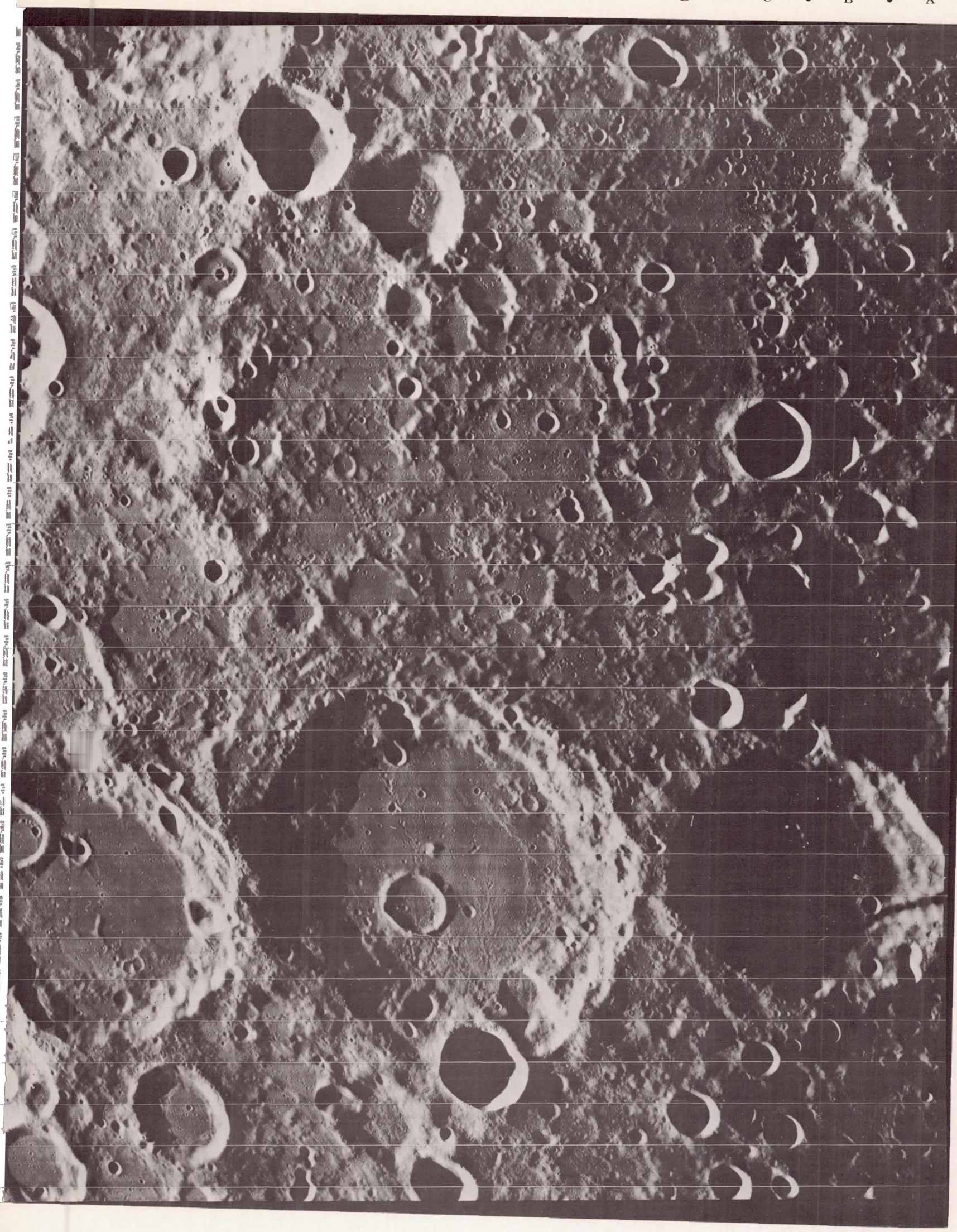


PHOTO NO.V-6-H1

ENTER COORDINATES ..... LONG.–111.66
LAT. 59.63
ORTH DEVIATION (DEG.) ..... 9.79
IN ANGLE ..... 82.3
PACECRAFT ALTITUDE (KM) ..... 2648.36

N

1 CENTIMETER ≈11 KILOMETERS

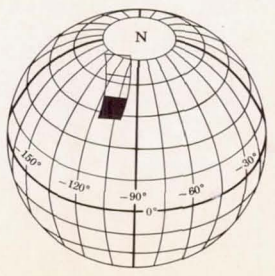
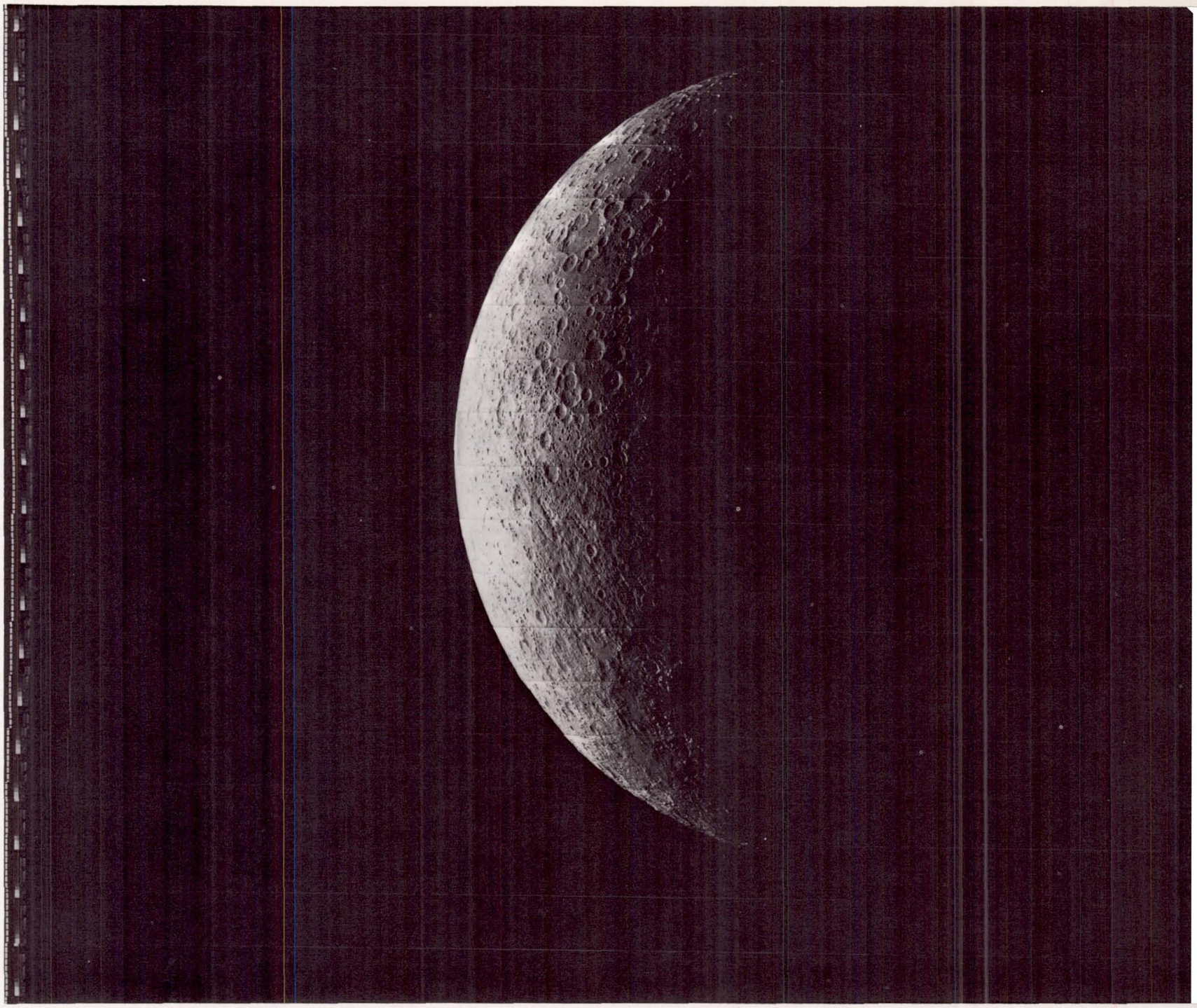
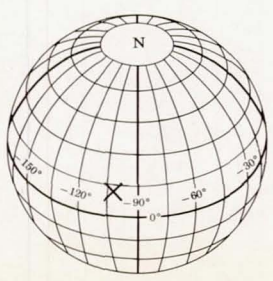



PLATE 592

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 190 KILOMETERS

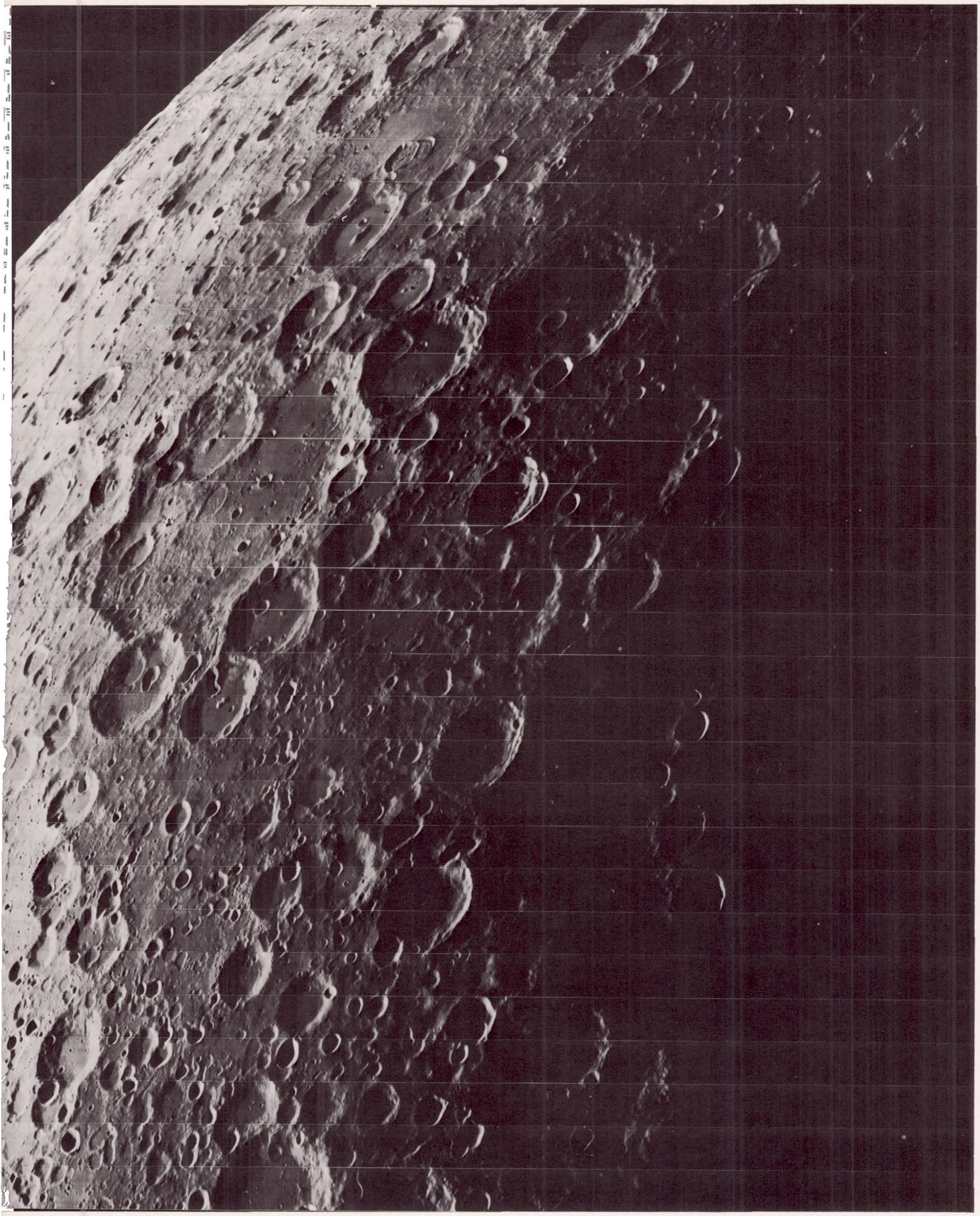
N

PHOTO NO.V-14-M

CENTER COORDINATES ..... LONG–102.2
LAT. 14.7
NORTH DEVIATION (DEG.) ..... 359.9
SUN ANGLE ..... 87.
SPACECRAFT ALTITUDE (KM) ..... 5755.7

PLATE 593

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-15-H3

ENTER COORDINATES ..... LONG.–102.38
LAT. 14.23
ORTH DEVIATION (DEG.) ..... 359.65
N ANGLE ..... 87.3
ACECRAFT ALTITUDE (KM) ..... 5756.22

N

1 CENTIMETER ≈ 25 KILOMETERS

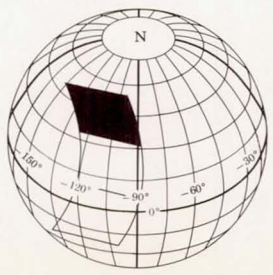
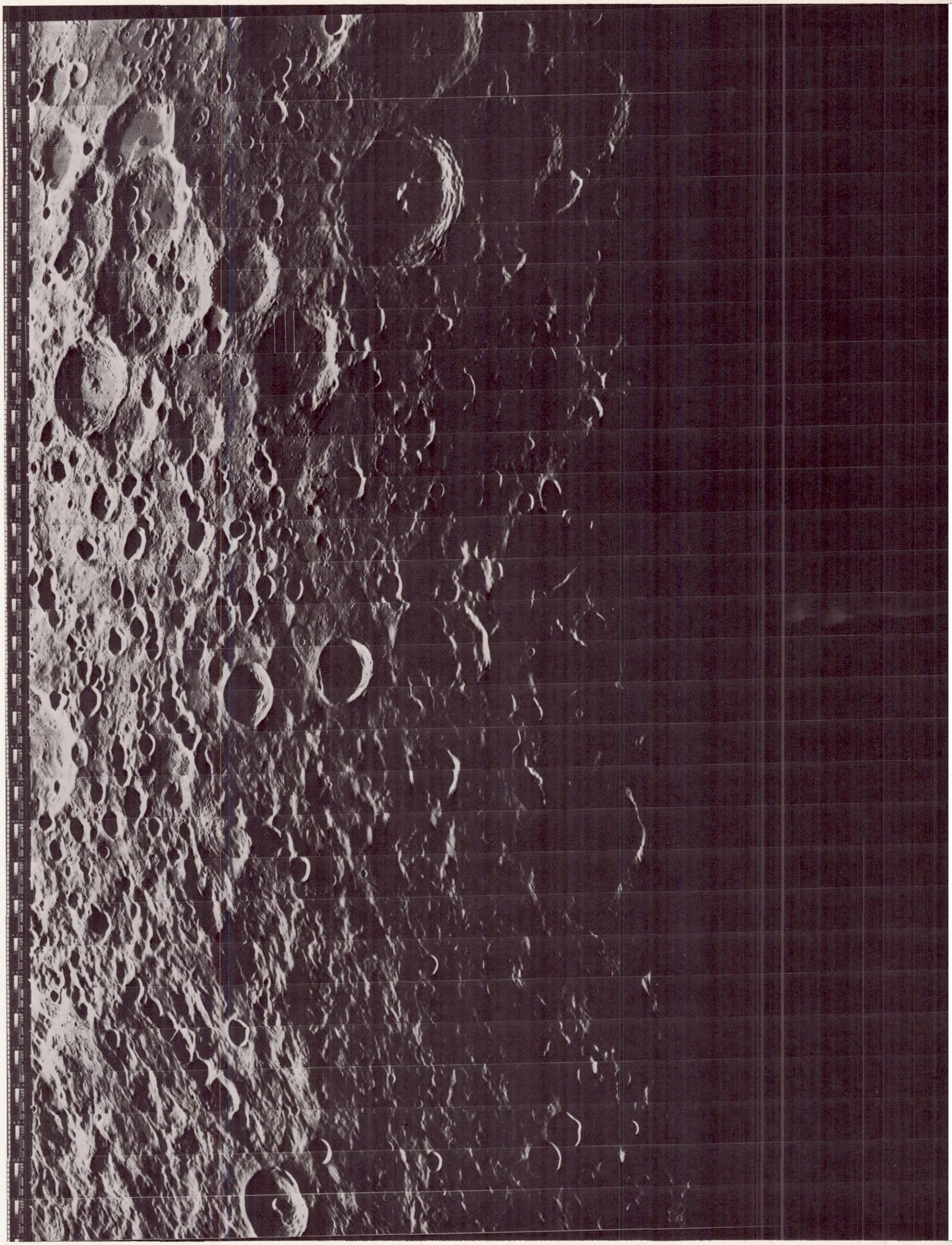
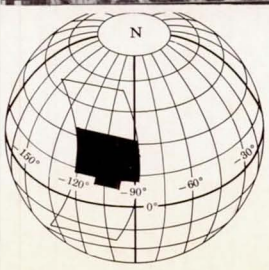



PLATE 594

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 25 KILOMETERS

N

PHOTO NO.V-15-H2

CENTER COORDINATES ..... LONG.–10
LAT. 1
NORTH DEVIATION (DEG.) ..... 35
SUN ANGLE ..... 3
SPACECRAFT ALTITUDE (KM) ..... 575

PLATE 595

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

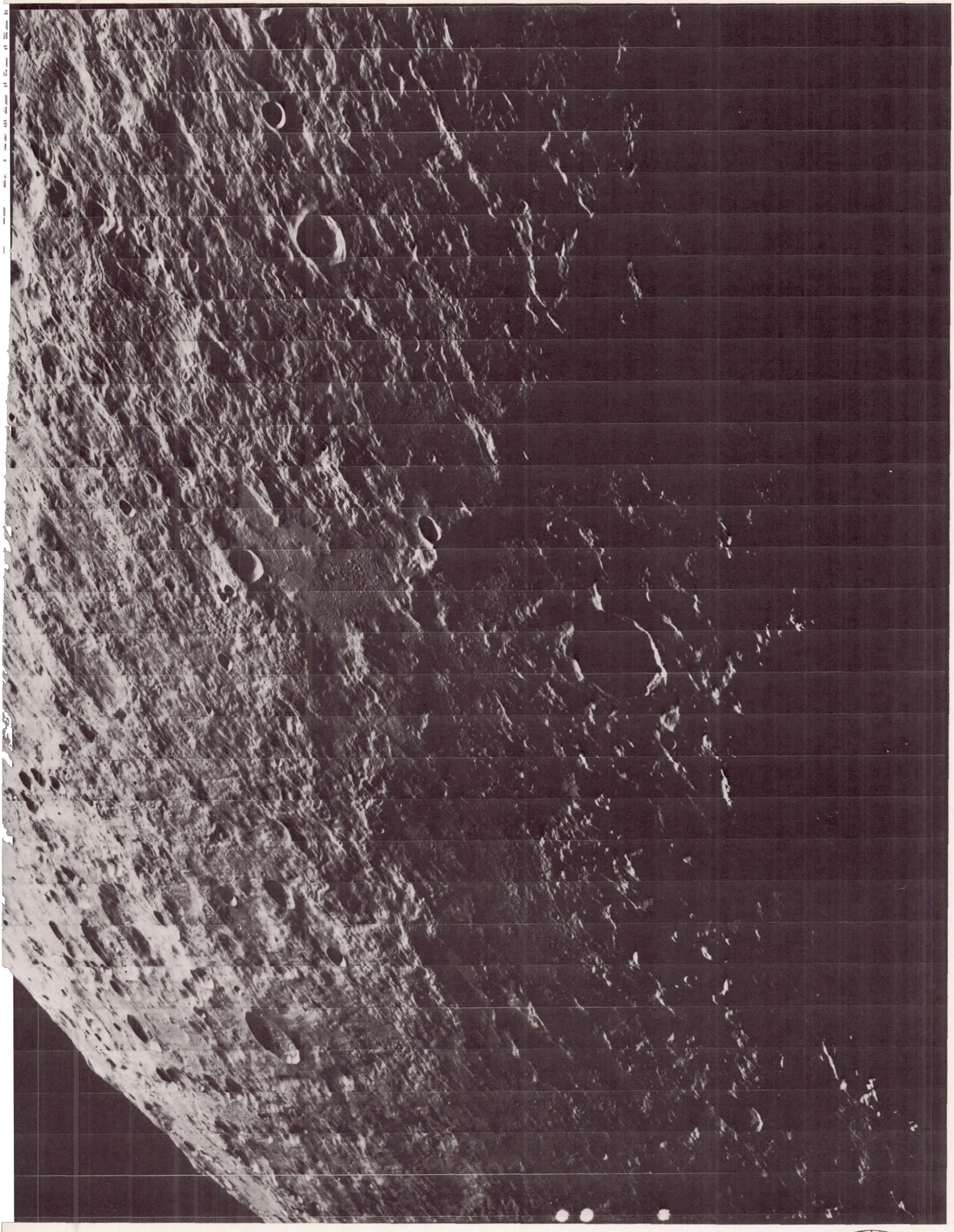


PHOTO NO V-15-H1

ENTER COORDINATES ..... LONG.–102.38
LAT. 14.23
ORTH DEVIATION (DEG.) ..... 359.65
N ANGLE ..... 87.3
ACECRAFT ALTITUDE (KM) ..... 5756.22

N

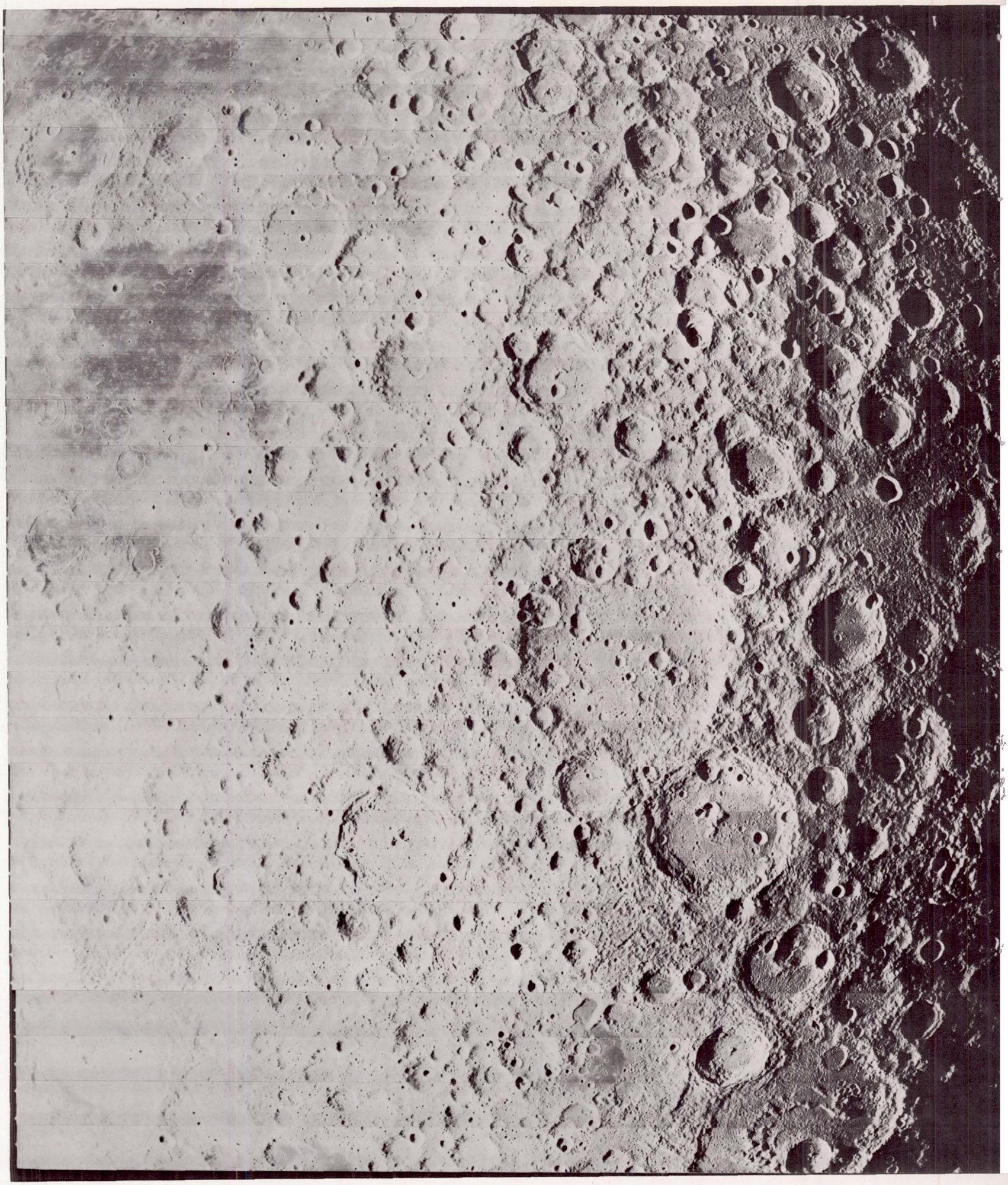
1 CENTIMETER ≈ 25 KILOMETERS

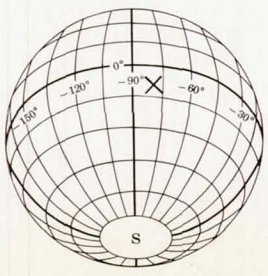



PLATE 596

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE SMYTHII .... A5

1 CENTIMETER ≈ 48 KILOMETERS

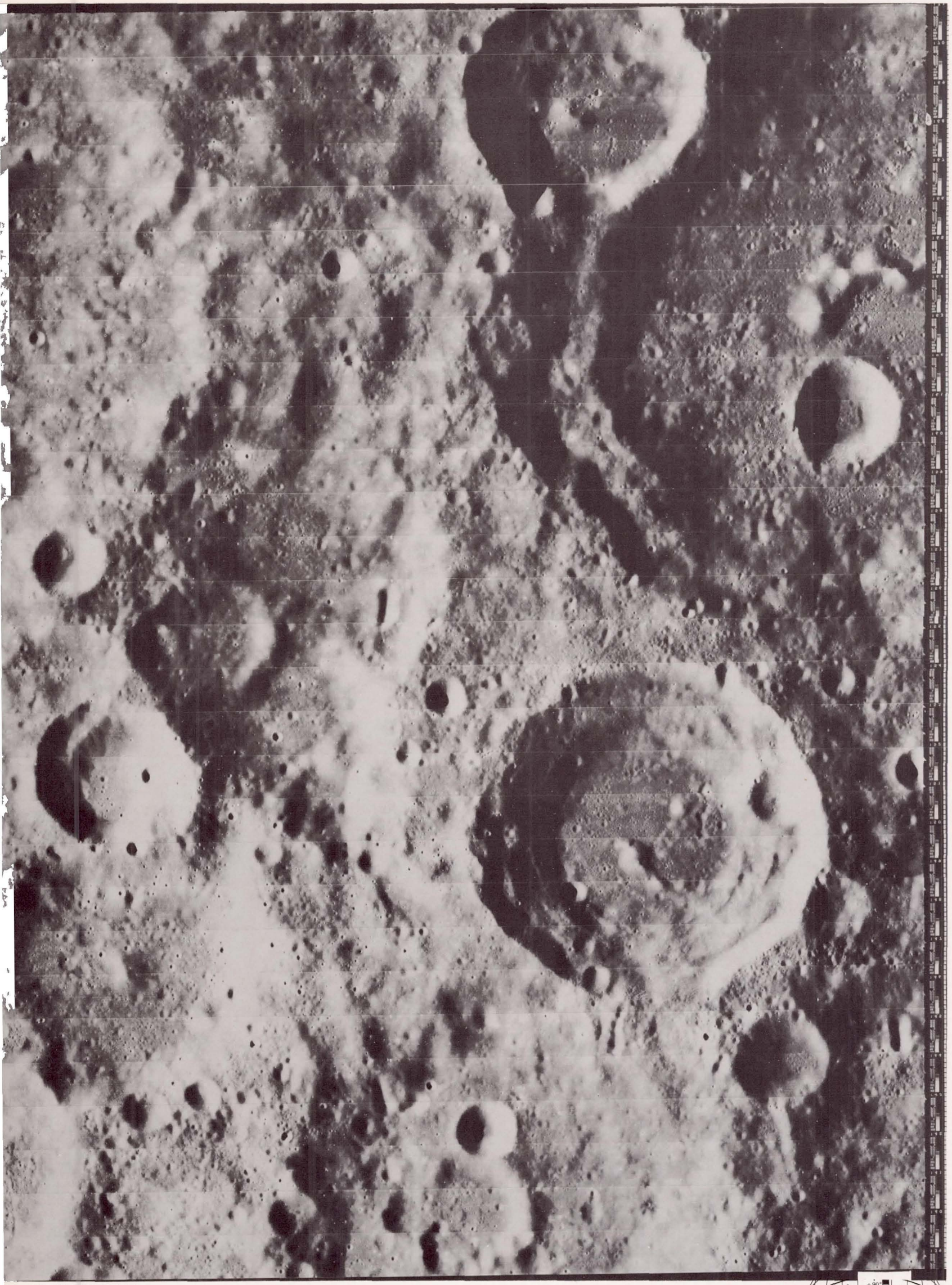
N

PHOTO NO. II-196-M

CENTER COORDINATES ..... LONG. 100.
LAT. −8.
NORTH DEVIATION (DEG.) ..... 177.
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1519.

PLATE 597

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. II-196-H1

TER COORDINATES ..... LONG. 100.56
LAT. —8.84
TH DEVIATION (DEG.) ..... 177.27
ANGLE ..... 70.2
ECRAFT ALTITUDE (KM) ..... 1519.00

N

1 CENTIMETER ≈ 6 KILOMETERS

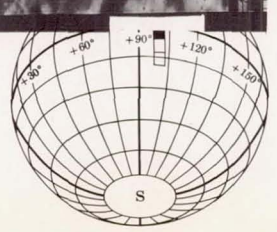
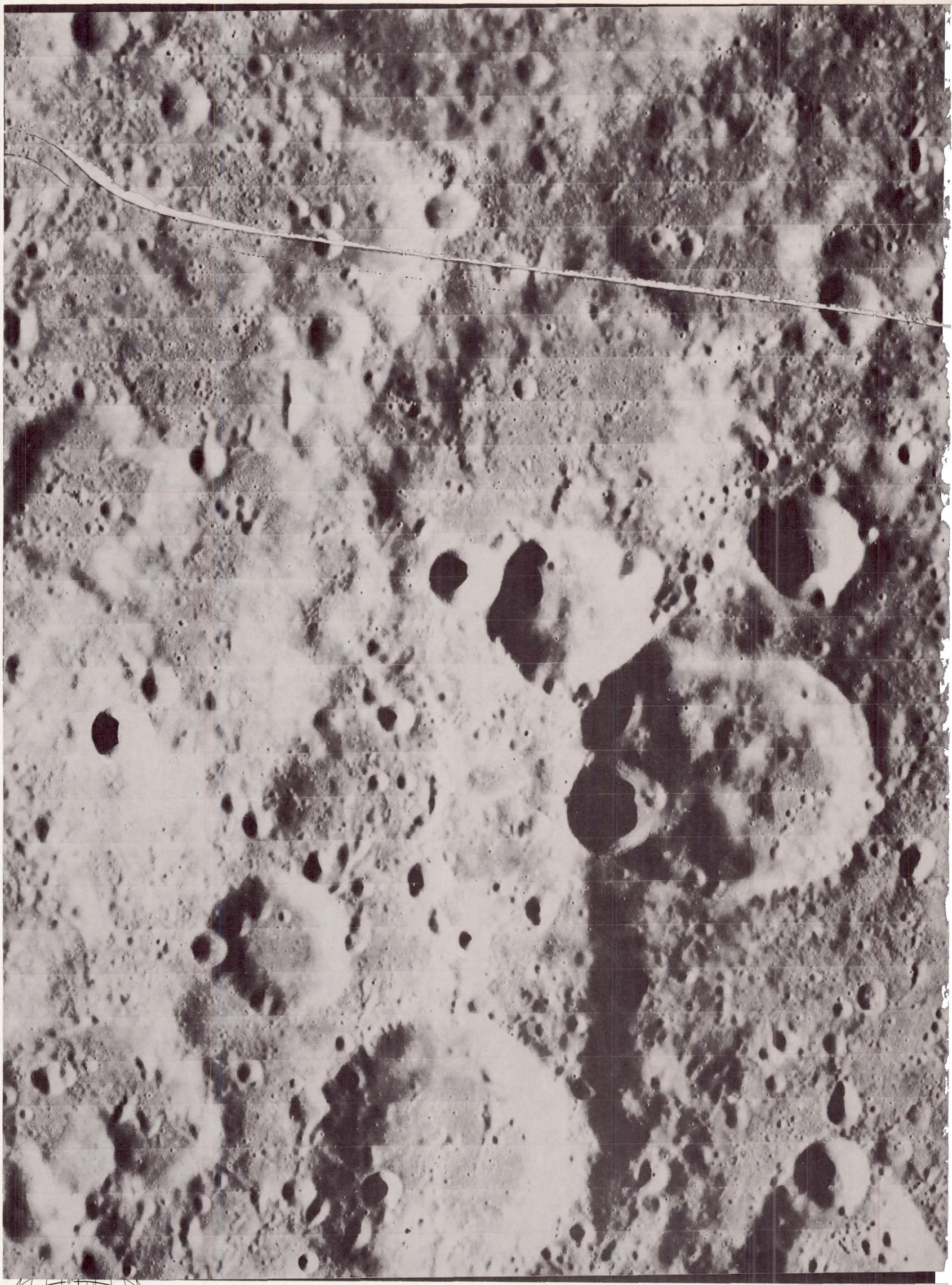
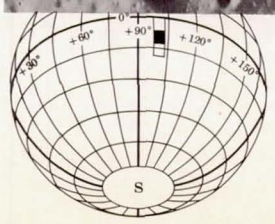



PLATE 598

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. II-196-H2

CENTER COORDINATES ..... LONG. 1
LAT. –
NORTH DEVIATION (DEG.) ..... 1
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 15

PLATE 599

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. II-196-H3

NTER COORDINATES ..... LONG. 100.56
LAT. —8.84
RTH DEVIATION (DEG.) ..... 177.27
N ANGLE ..... 70.2
ACECRAFT ALTITUDE (KM) ..... 1519.00

N

1 CENTIMETER ≈ 6 KILOMETERS

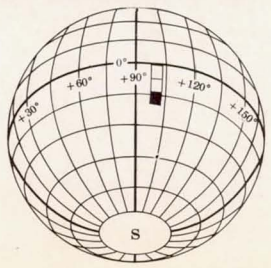
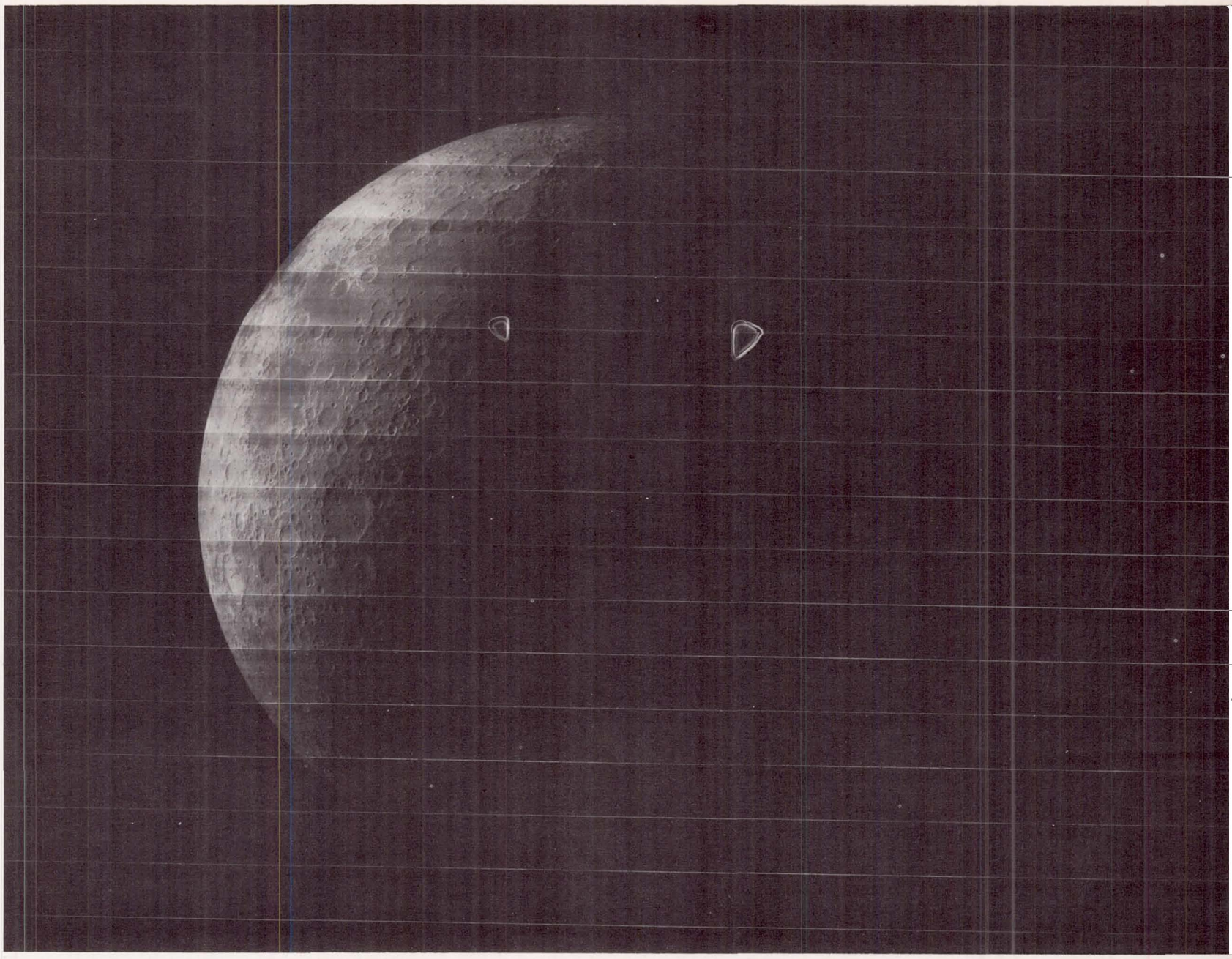
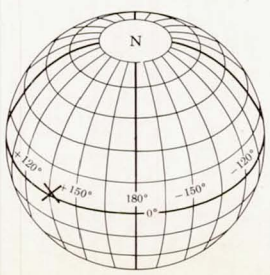



PLATE 600

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE MARGINIS .... D3
MARE SMYTHII .... C4

1 CENTIMETER ≈ 194 KILOMETERS

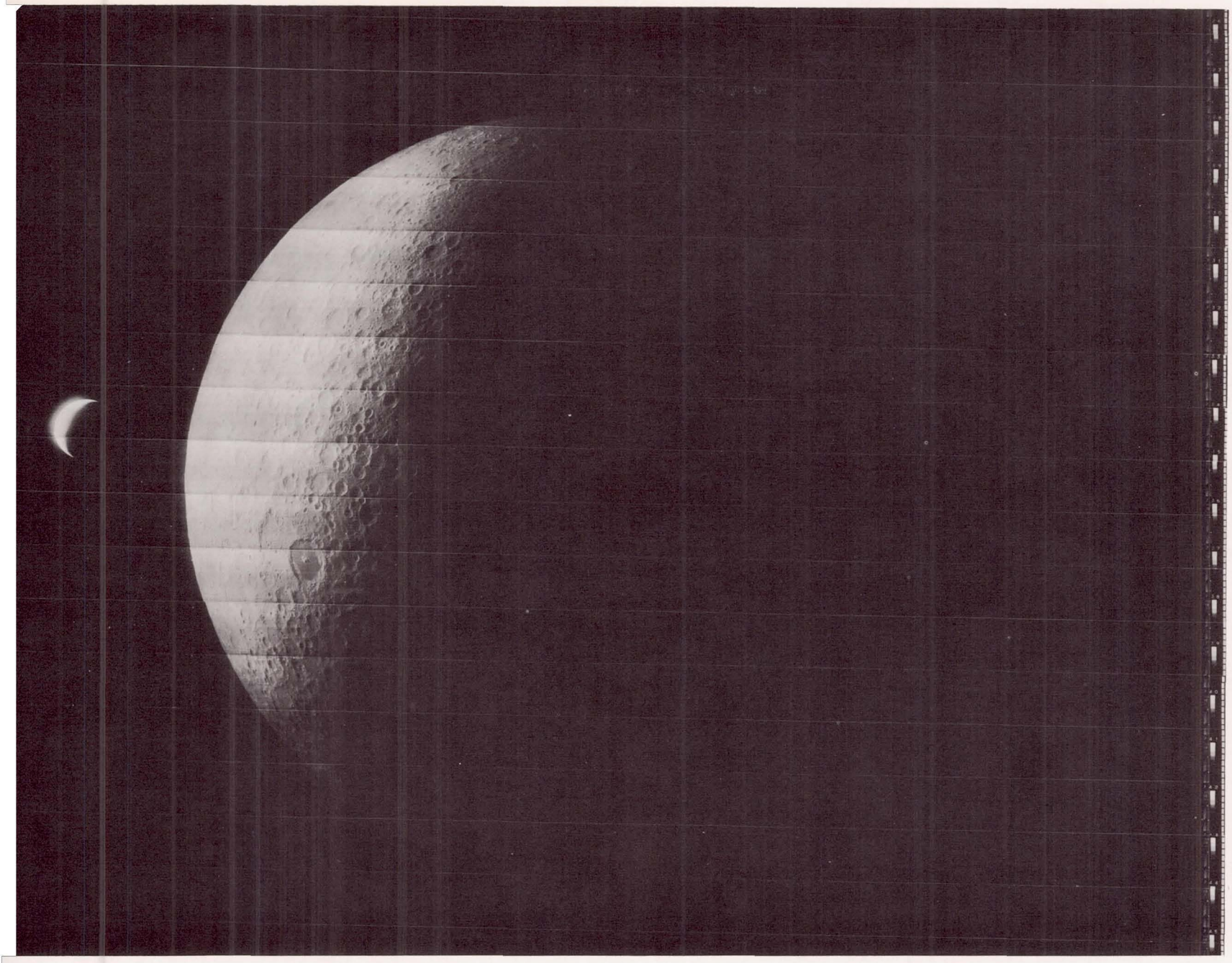
N

PHOTO NO. IV-146-M

CENTER COORDINATES ..... LONG. 136
LAT. 2
NORTH DEVIATION (DEG.) .....199
SUN ANGLE .....11
SPACECRAFT ALTITUDE (KM) ..... 6147

PLATE 601

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. IV-123-M

ENTER COORDINATES ..... LONG 162.38
LAT 1.13
ORTH DEVIATION (DEG.) ..... 199.22
N ANGLE ..... 112.0
ACECRAFT ALTITUDE (KM) ..... 6151 33

N

1 CENTIMETER ≈ 194 KILOMETERS

TSIOLKOVSKY .. J6

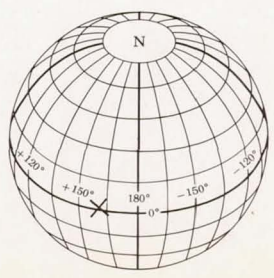
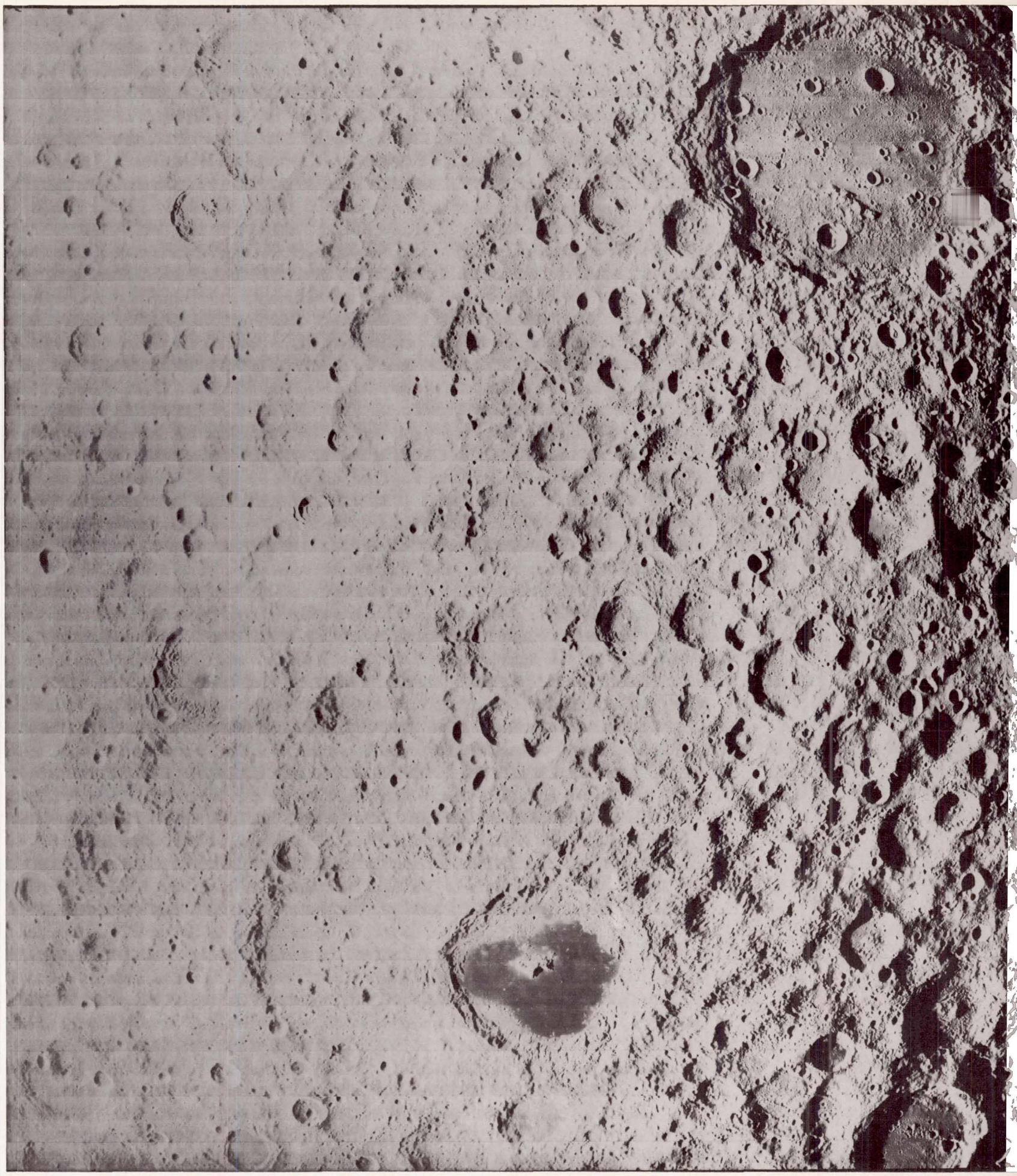
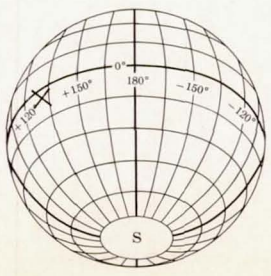



PLATE 602

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






TSIOLKOVSKY ....G12

1 CENTIMETER ≈ 42 KILOMETERS

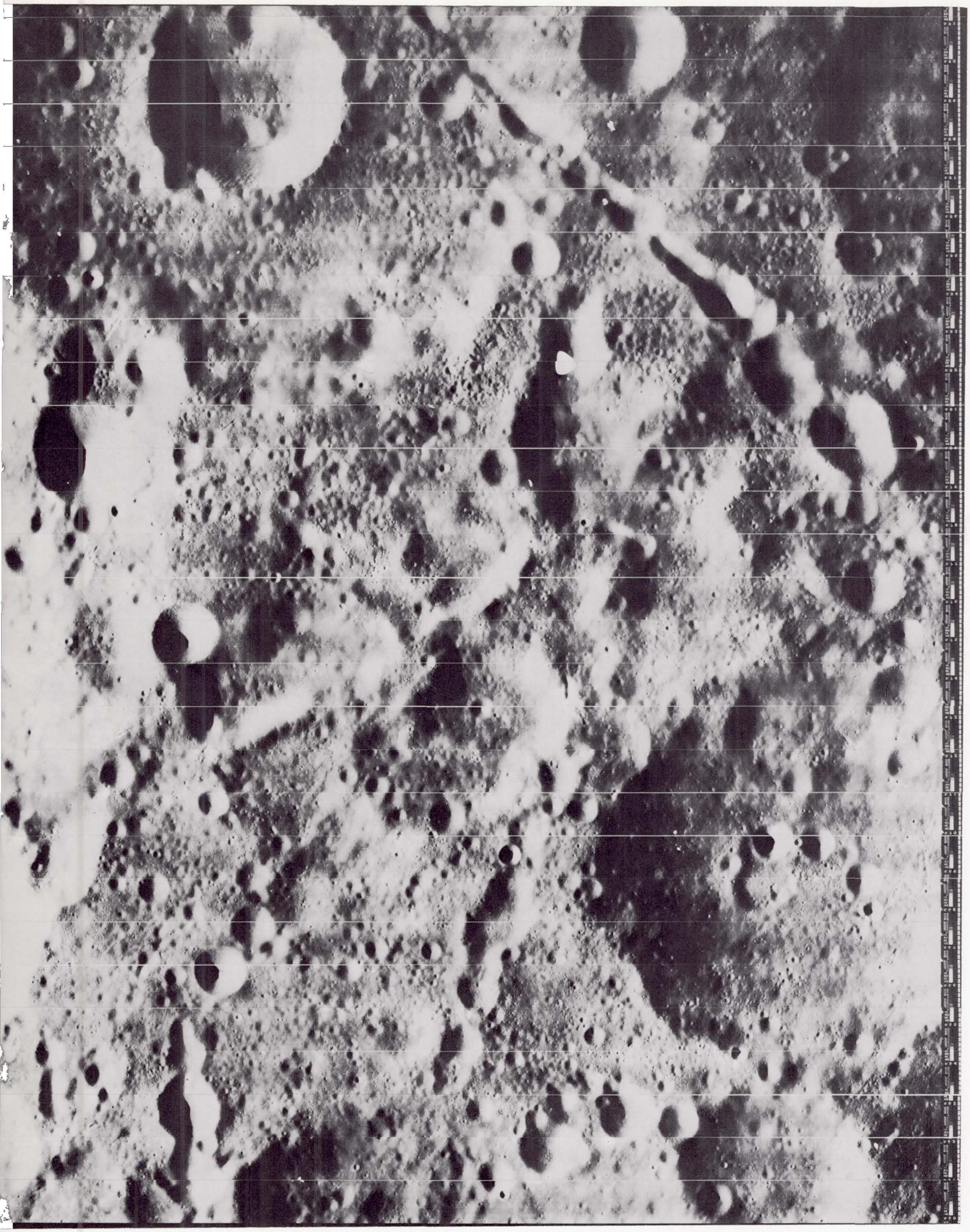
N

PHOTO NO. I-136-M

CENTER COORDINATES ..... LONG. 129
LAT. —0
NORTH DEVIATION (DEG.) .....17
SUN ANGLE .....6
SPACECRAFT ALTITUDE (KM) .....1327

PLATE 603

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-136-H1

TER COORDINATES ..... LONG. 129.34
LAT. —05.40
RTH DEVIATION (DEG.) ..... 174.06
ANGLE ..... 69.3
CECRAFT ALTITUDE (KM) ..... 1327.80

N

1 CENTIMETER ≈ 6 KILOMETERS

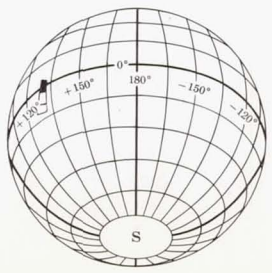
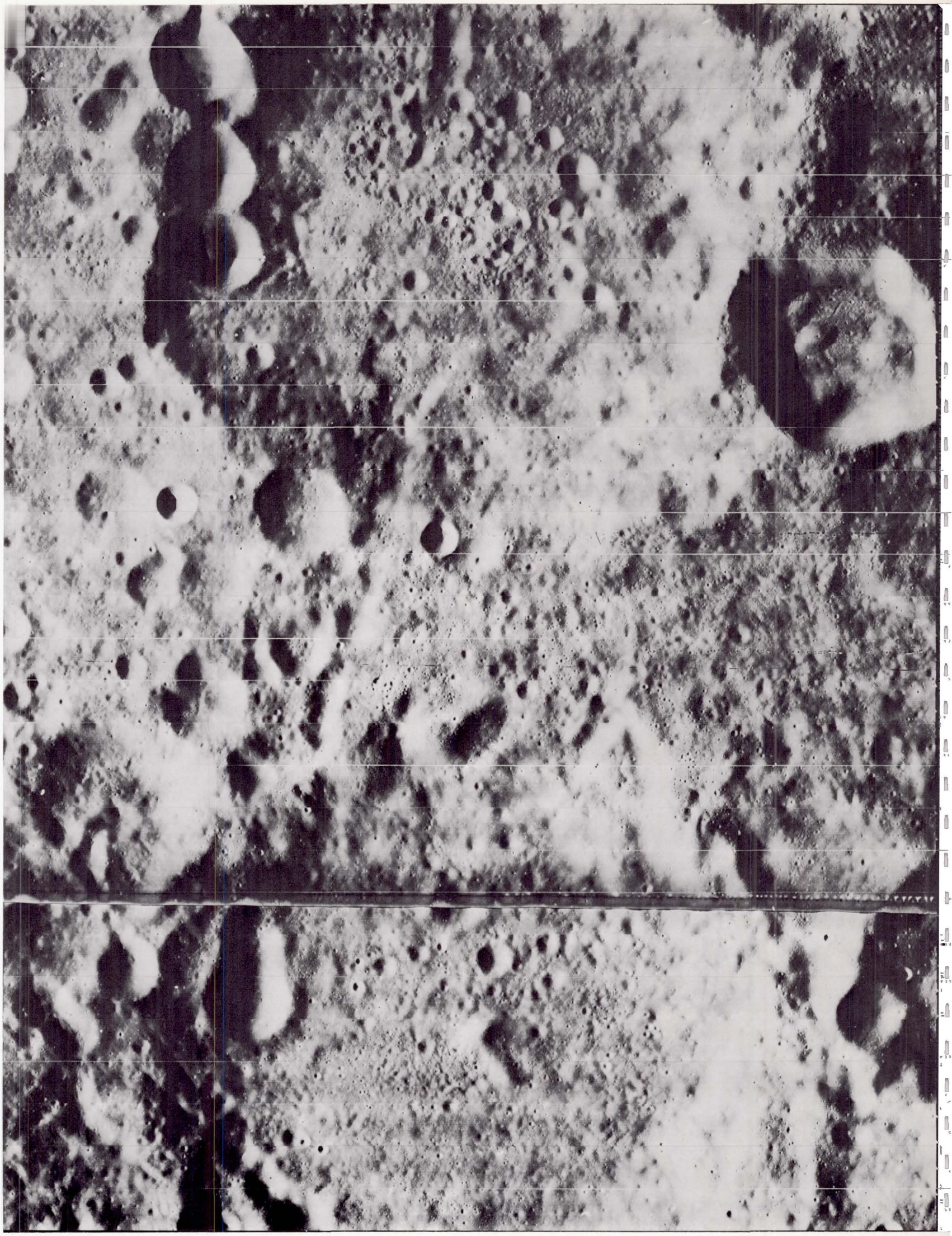
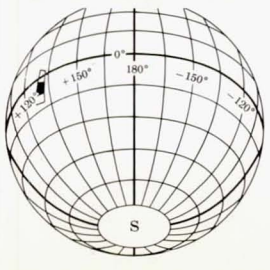



PLATE 604

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. I-136-H2

CENTER COORDINATES ..... LONG. 129
LAT. —05
NORTH DEVIATION (DEG.) .....174
SUN ANGLE .....6
SPACECRAFT ALTITUDE (KM) .....1327

PLATE 605

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. I-136-H3

ENTER COORDINATES ..... LONG. 129.34
LAT. —05.40
ORTH DEVIATION (DEG.) ..... 174.06
N ANGLE ..... 69.3
ACECRAFT ALTITUDE (KM) ..... 1327.80

N

1 CENTIMETER ≈ 6 KILOMETERS

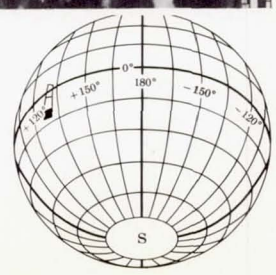
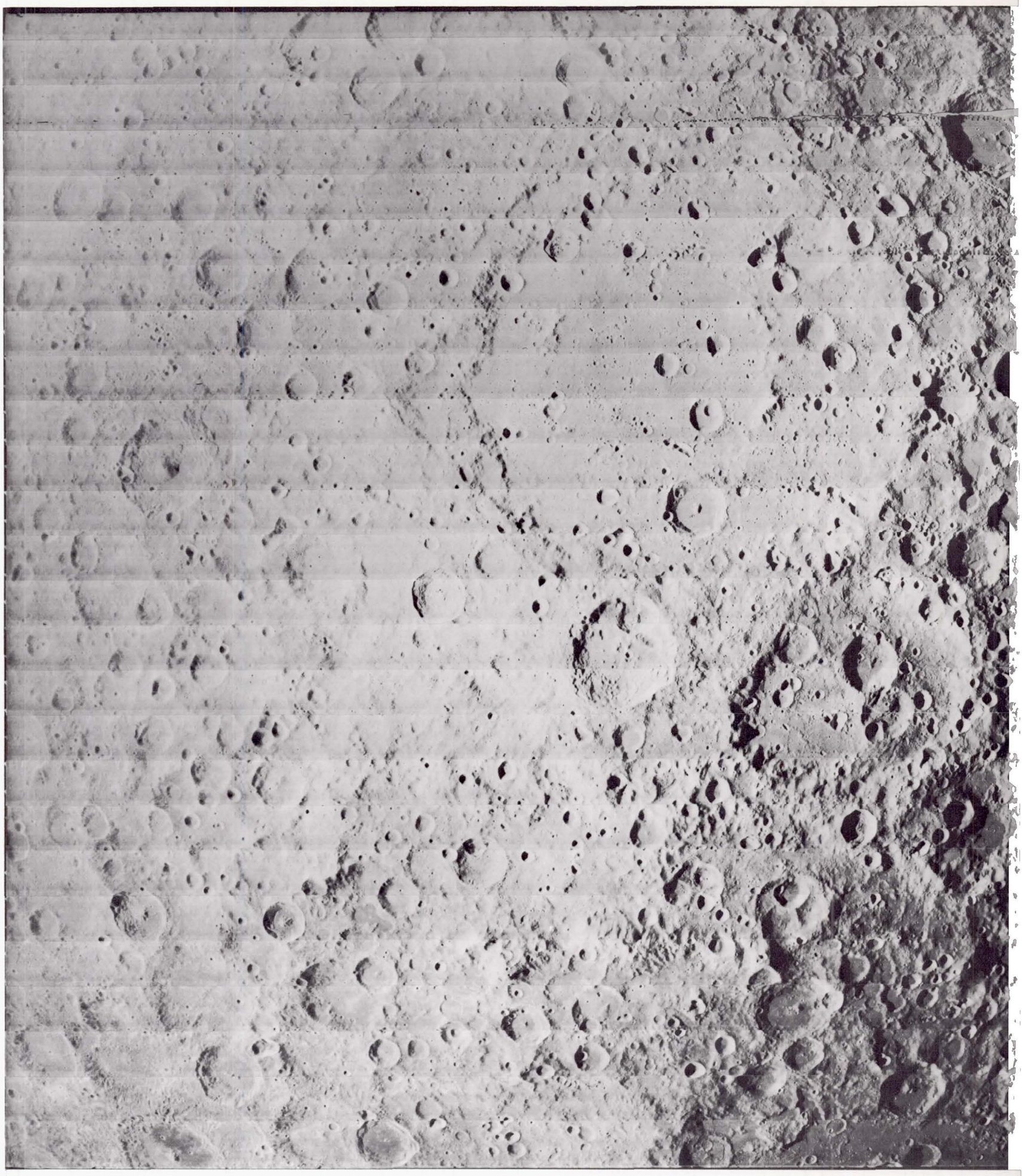
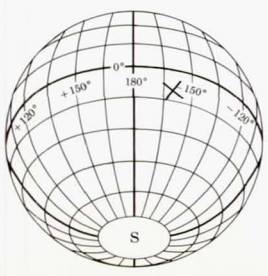



PLATE 606

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 41 KILOMETERS

N

PHOTO NO. I-30-M

CENTER COORDINATES ..... LONG. —162.
LAT. —10.
NORTH DEVIATION (DEG.) ..... 174.
SUN ANGLE ..... 66
SPACECRAFT ALTITUDE (KM) ..... 1298.

PLATE 607

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-30-H1

ENTER COORDINATES ..... LONG. —162.70
LAT. —10.27
ORTH DEVIATION (DEG.) ..... 174.72
UN ANGLE ..... 66.4
PACECRAFT ALTITUDE (KM) ..... 1298.76

N

1 CENTIMETER ≈ 5 KILOMETERS

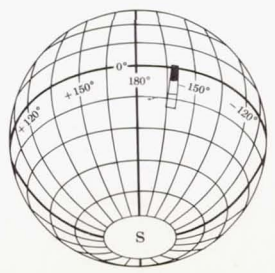
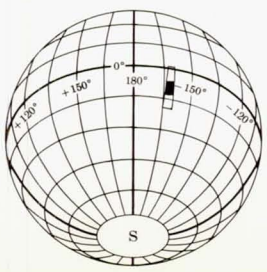



PLATE 608

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 5 KILOMETERS

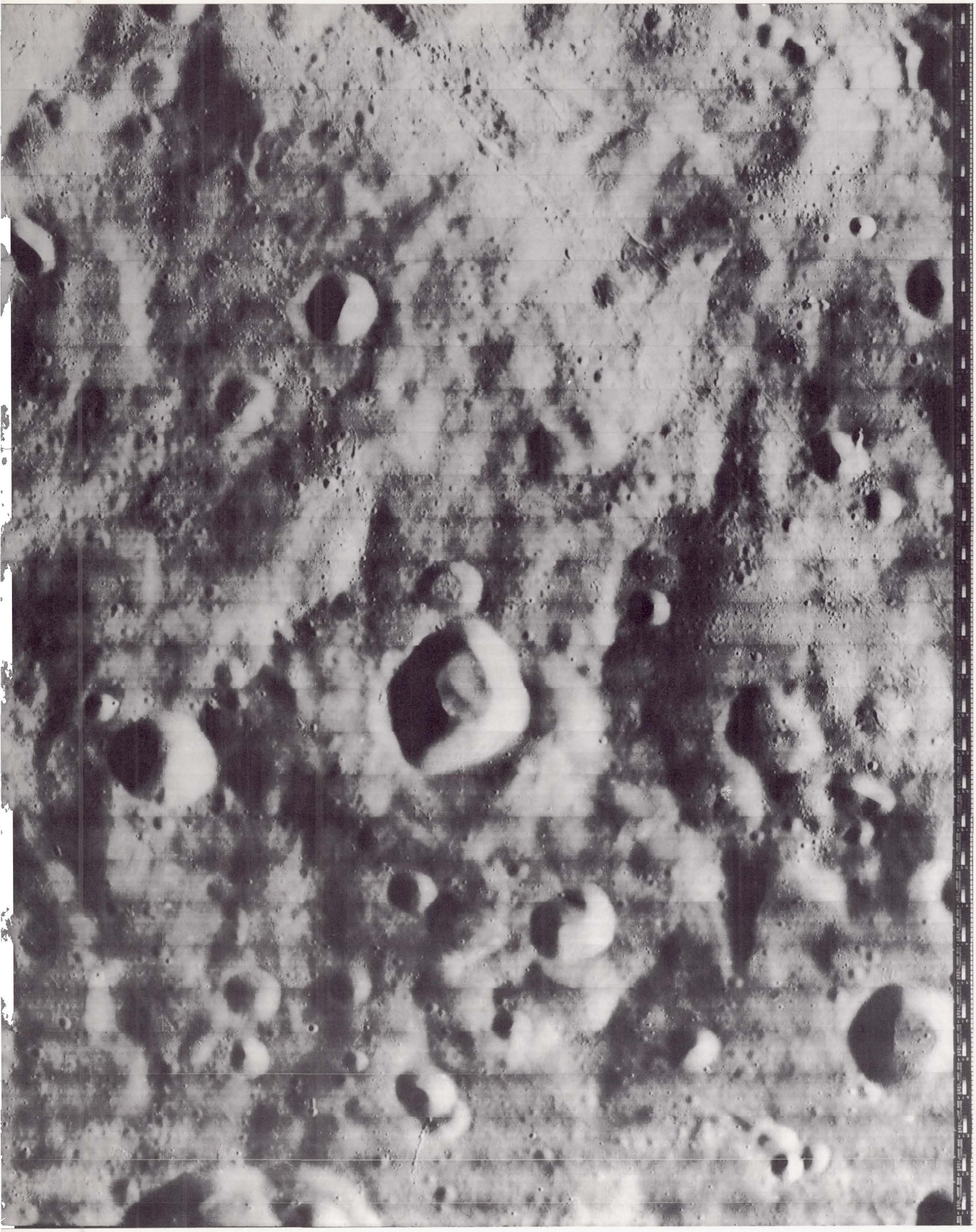
N

PHOTO NO. I-30-H2

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. —162.3 |
| | LAT. —10.3 |
| NORTH DEVIATION (DEG.) ..... | 174.7 |
| SUN ANGLE ..... | 66 |
| SPACECRAFT ALTITUDE (KM) ..... | 1298.7 |

PLATE 609

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-30-H3

ENTER COORDINATES ..... LONG. —162.70
LAT. —10.27
ORTH DEVIATION (DEG.) ..... 174.72
JN ANGLE ..... 66.4
PACECRAFT ALTITUDE (KM) ..... 1298.76

N

1 CENTIMETER ≈ 5 KILOMETERS

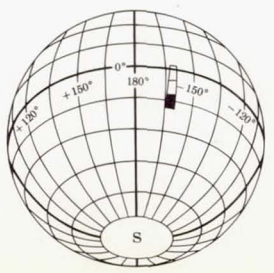
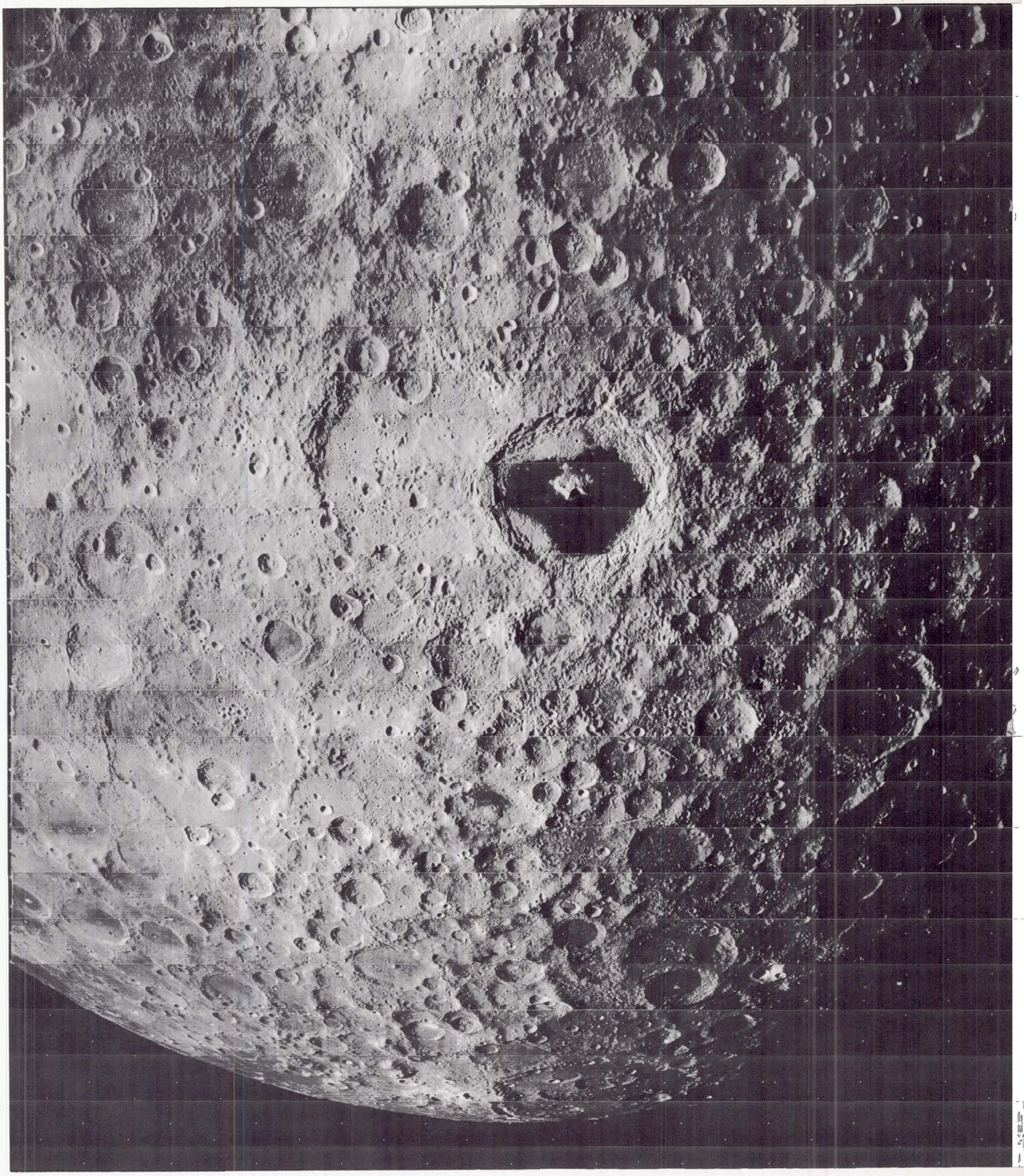
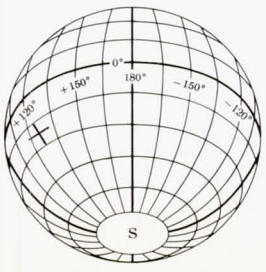



PLATE 610

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






TSIOLKOVSKY .... G6

1 CENTIMETER ≈ 48 KILOMETERS

N

PHOTO NO. III-121-M

CENTER COORDINATES ..... LONG. 126.
LAT. —24.
NORTH DEVIATION (DEG.) ..... 181.
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1463.

PLATE 611

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

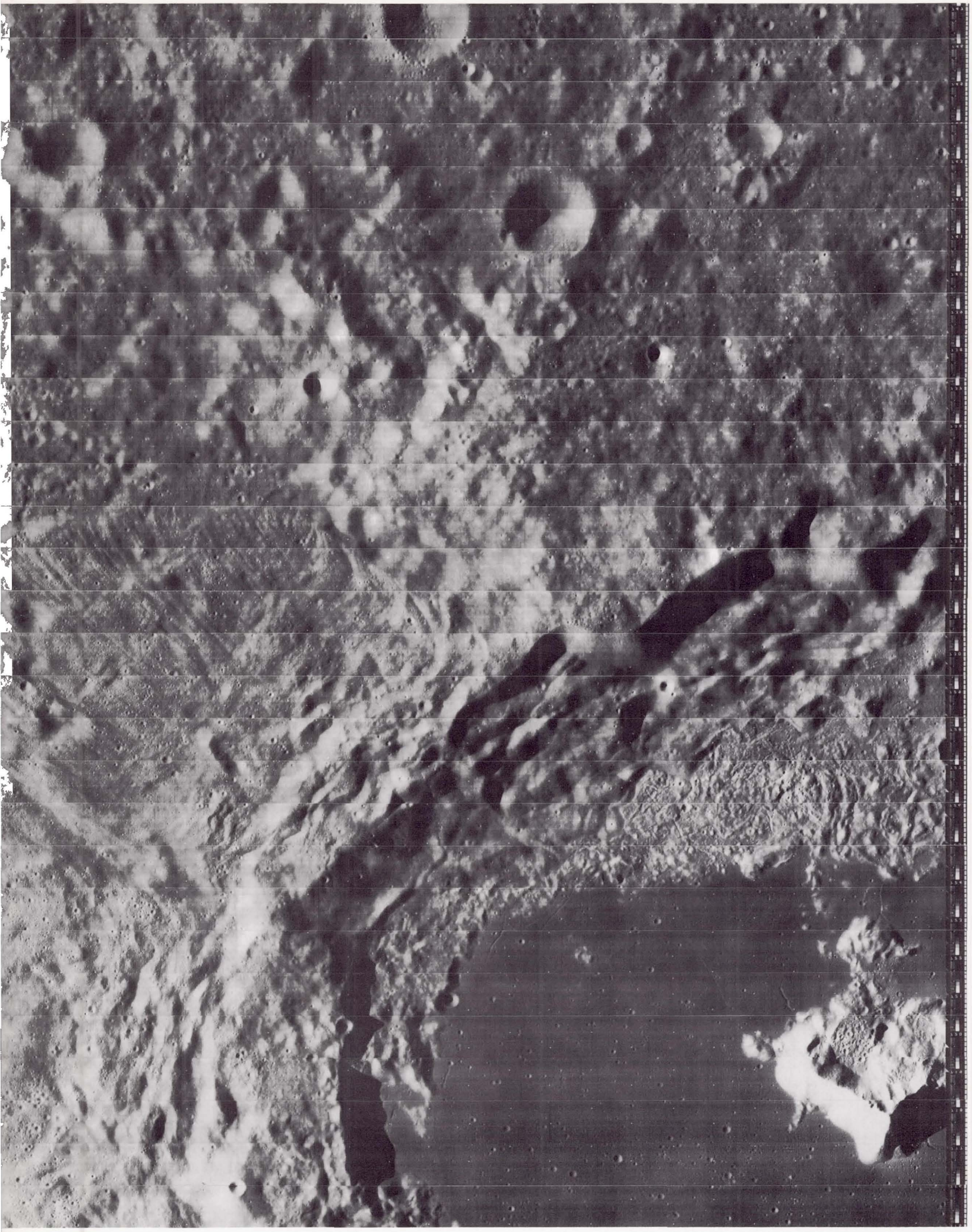


PHOTO NO. III-121-H1

ENTER COORDINATES ..... LONG. 126.72
LAT. —24.08
ORTH DEVIATION (DEG.) ..... 181.05
JN ANGLE ..... 70.5
PACECRAFT ALTITUDE (KM) ..... 1463.15

N

1 CENTIMETER ≈ 6 KILOMETERS

TSIOLKOVSKY .... D14

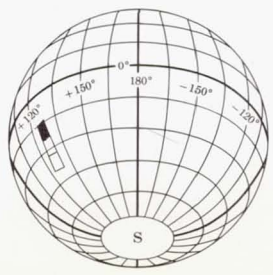
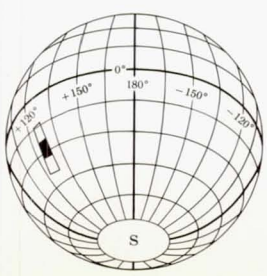



PLATE 612

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






TSIOLKOVSKY .... M1

1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. III-121-H2

CENTER COORDINATES ..... LONG. 126
LAT. −24
NORTH DEVIATION (DEG.) ..... 181
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1463

PLATE 613

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. III-121-H3

NTER COORDINATES ..... LONG. 126.72
LAT. —24.08
RTH DEVIATION (DEG.) ..... 181.05
N ANGLE ..... 70.5
ACECRAFT ALTITUDE (KM) ..... 1463.15

N

1 CENTIMETER ≈ 6 KILOMETERS

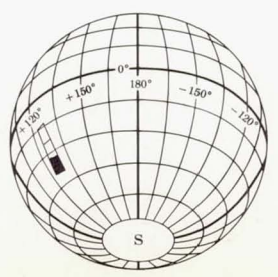
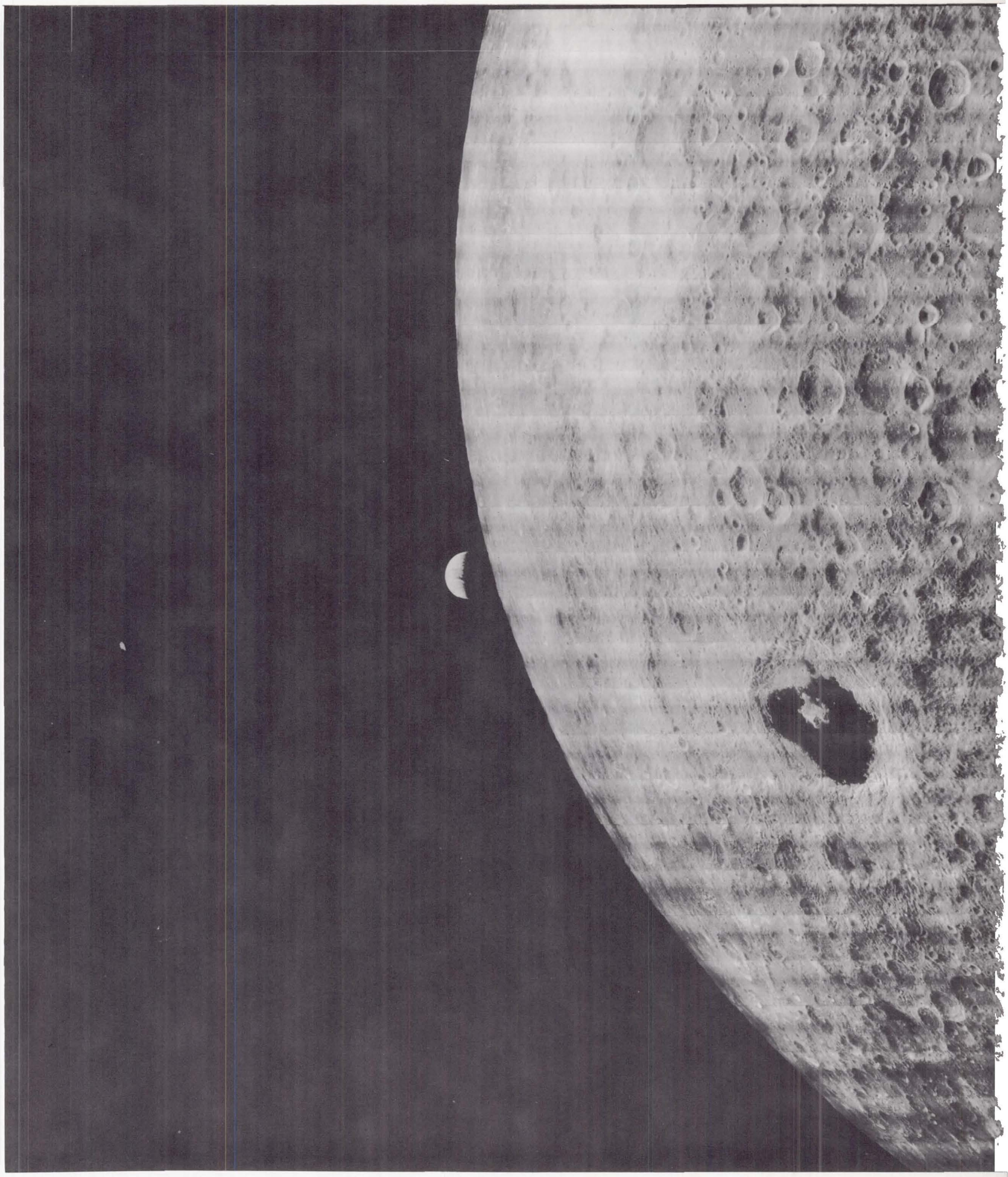
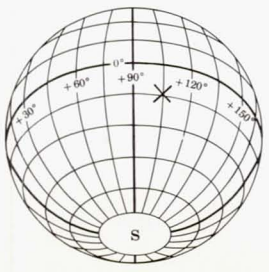



PLATE 614

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






TSIOLKOVSKY ... K9

1 CENTIMETER ≈ 67 KILOMETERS

N

PHOTO NO. I-102-M

CENTER COORDINATES ..... LONG. 10
LAT. —1
NORTH DEVIATION (DEG.) ..... 16
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 119

PLATE 615

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-102-H1

TER COORDINATES ..... LONG. 104.35
LAT. −14.68
RTH DEVIATION (DEG.) ..... 163.86
ANGLE ..... 21.3
CECRAFT ALTITUDE (KM) ..... 1198.28

N

1 CENTIMETER ≈ 9 KILOMETERS

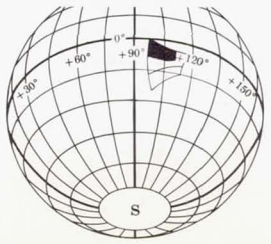
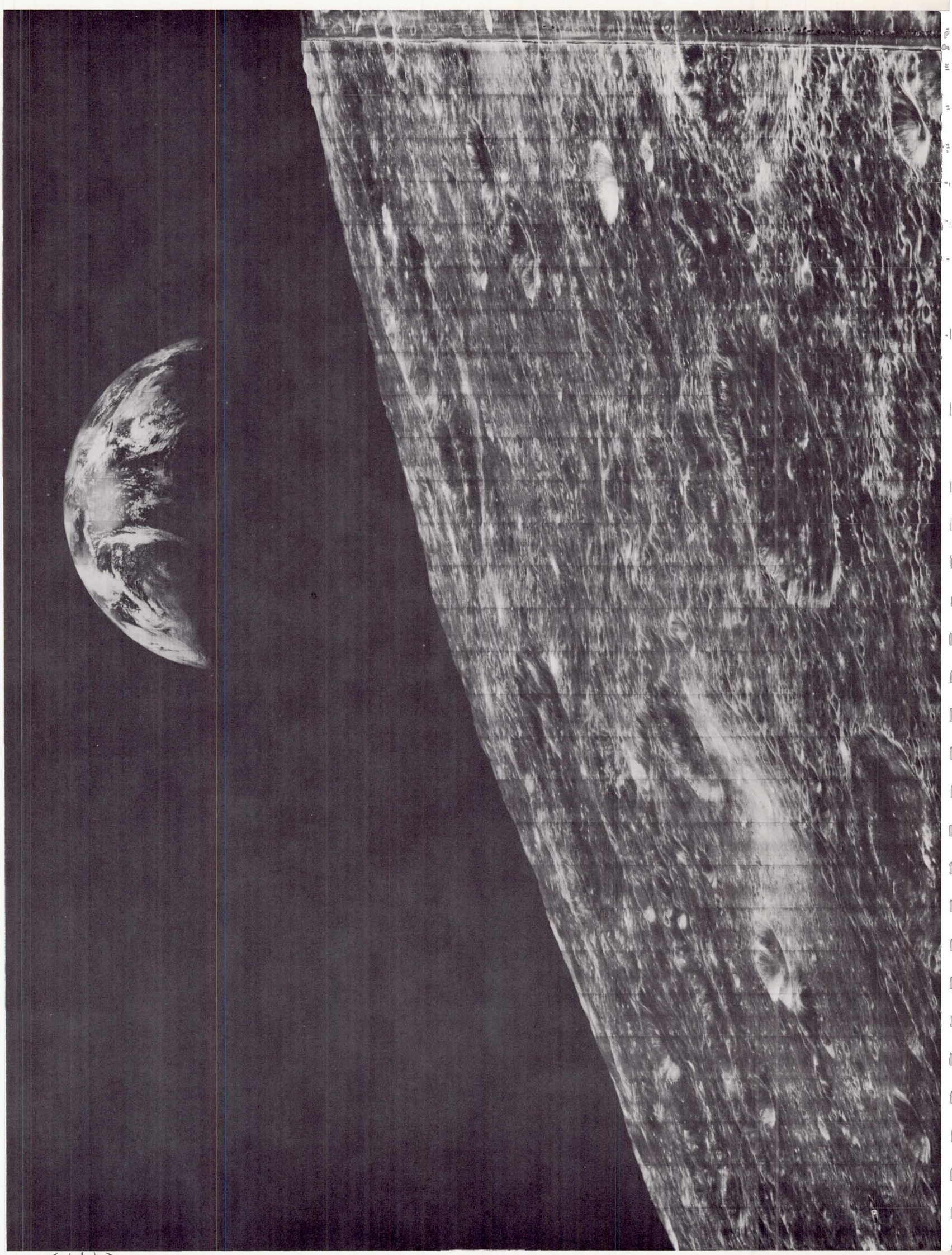
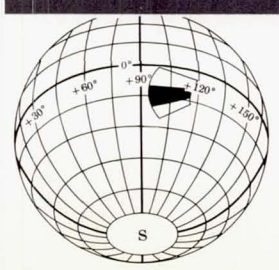



PLATE 616

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 9 KILOMETERS

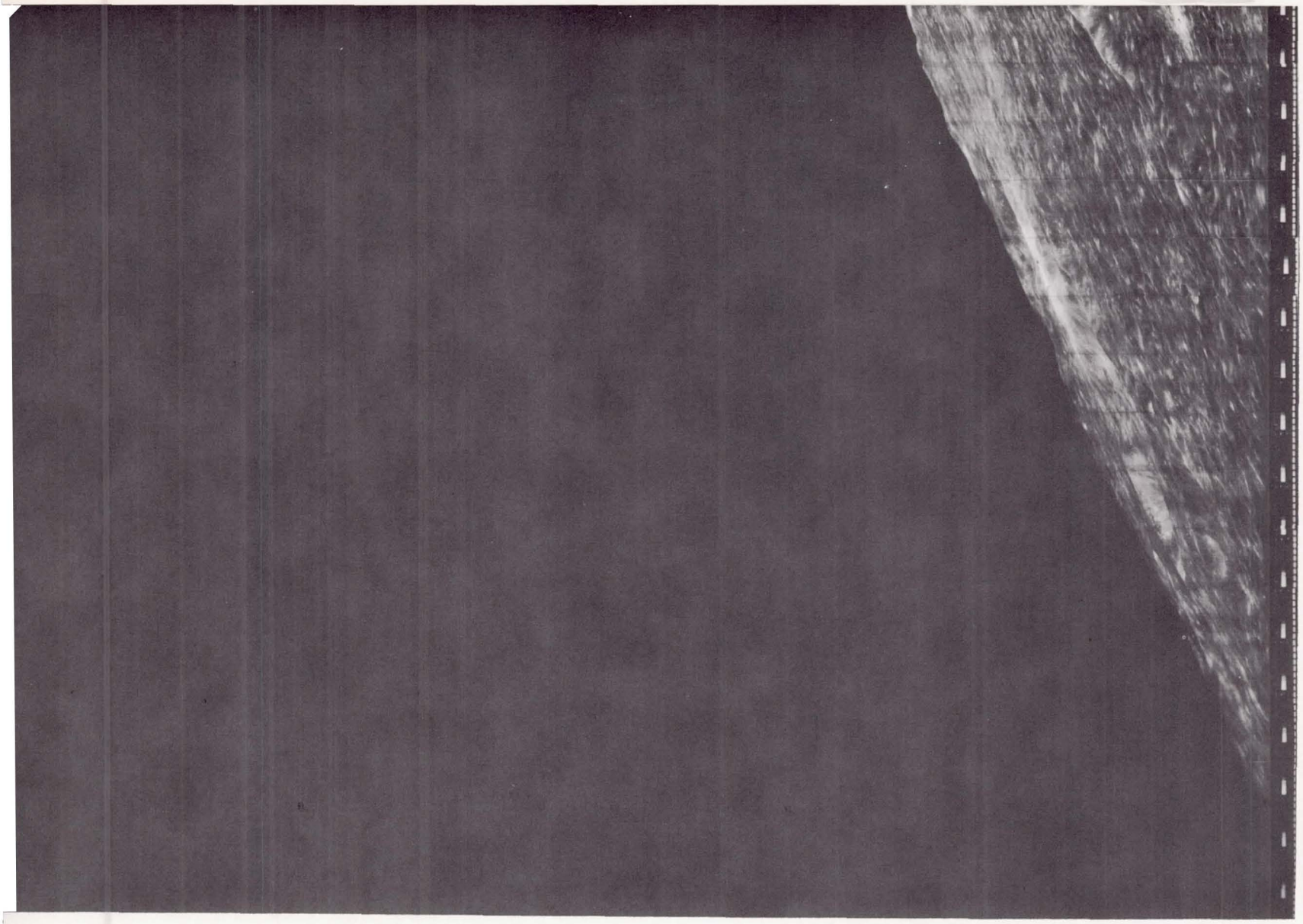
N

PHOTO NO. I-102-H2

CENTER COORDINATES ..... LONG. 104
LAT. −14
NORTH DEVIATION (DEG.) ..... 16
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 119

PLATE 617

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-102-H3

NTER COORDINATES ..... LONG. 104.35
LAT. −14.68
RTH DEVIATION (DEG.) ..... 163.86
N ANGLE ..... 21.3
ACECRAFT ALTITUDE (KM) ..... 1198.28

N

1 CENTIMETER ≈ 9 KILOMETERS

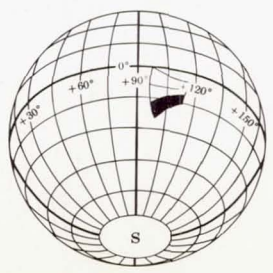
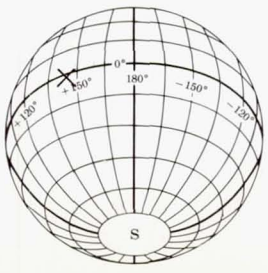



PLATE 618

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






TSIOLKOVSKY.... B13

1 CENTIMETER ≈ 44 KILOMETERS

N

PHOTO NO. I-115-M

CENTER COORDINATES ..... LONG. 14
LAT. −2
NORTH DEVIATION (DEG.) ..... 17
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 138

PLATE 619

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. I-115-H1

TER COORDINATES ..... LONG. 145.26
LAT. −02.92
TH DEVIATION (DEG.) ..... 172.98
ANGLE ..... 71.04
ECRAFT ALTITUDE (KM) ..... 1381.14

N

1 CENTIMETER ≈ 6 KILOMETERS

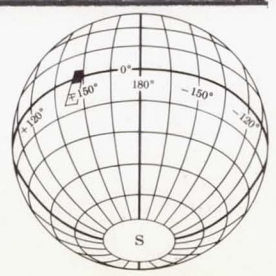
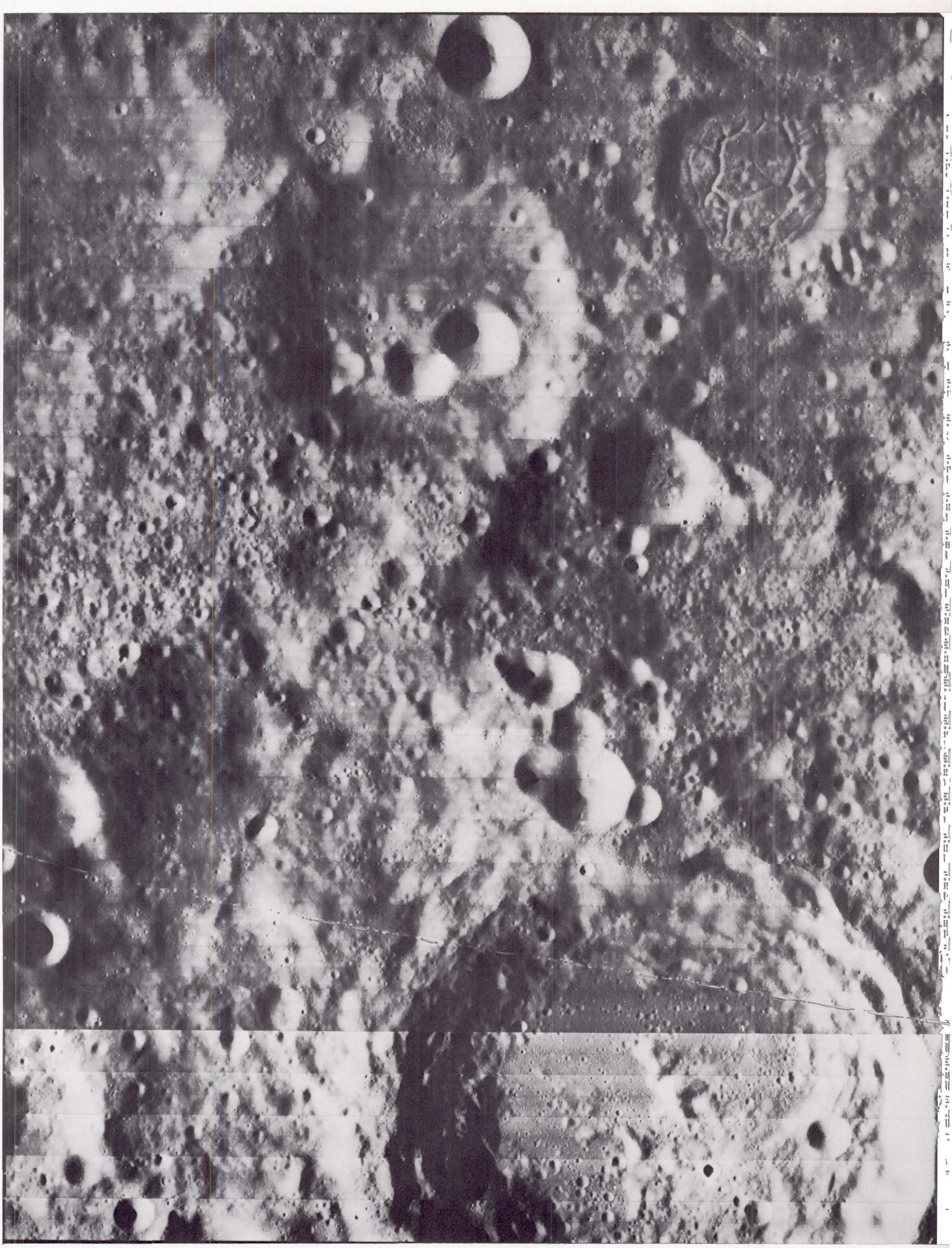
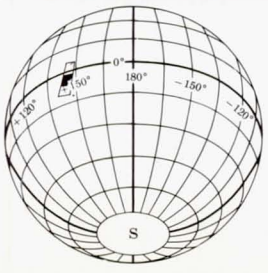



PLATE 620

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

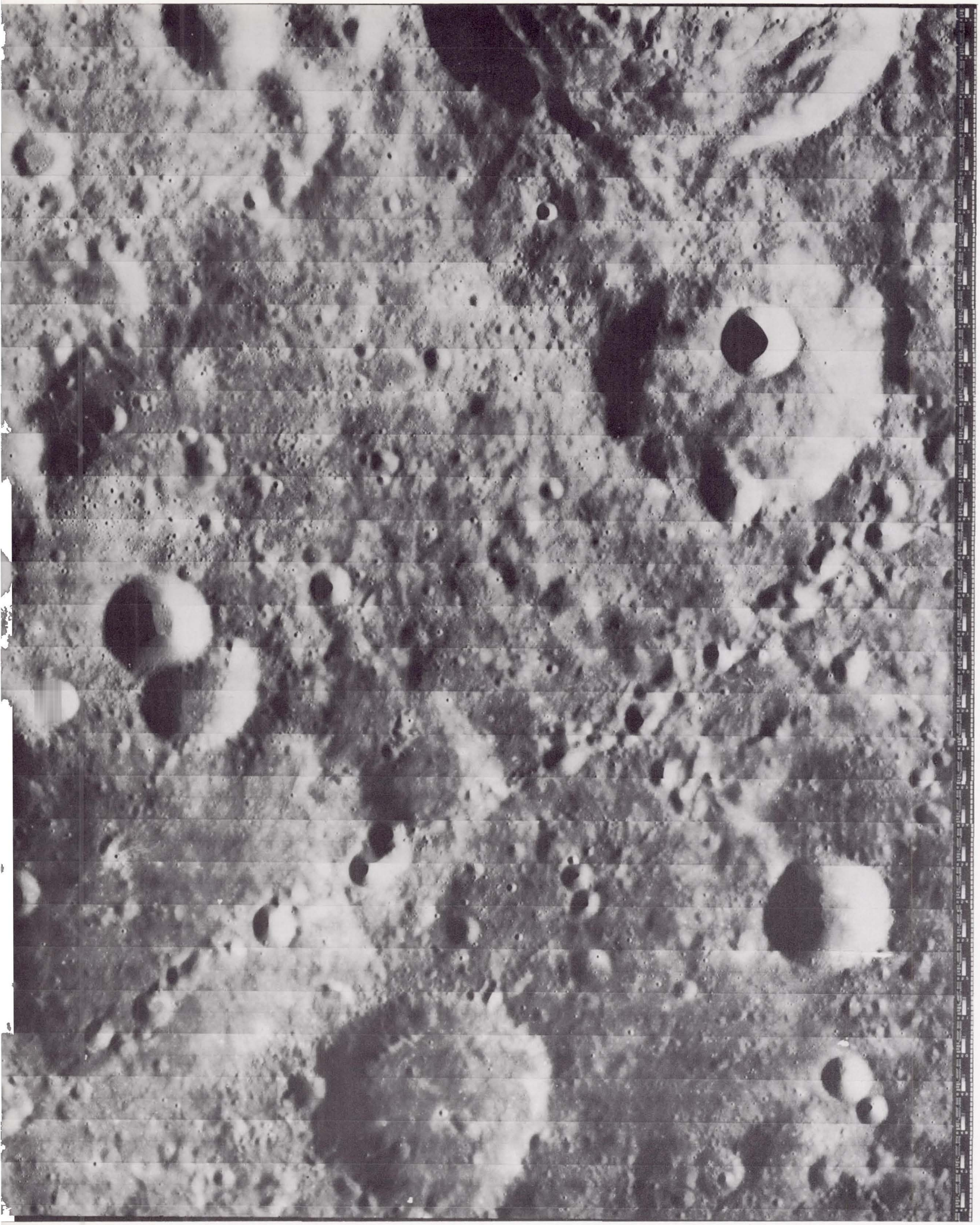
N

PHOTO NO. I-115-H2

CENTER COORDINATES ..... LONG. 14
LAT. −(
NORTH DEVIATION (DEG.) ..... 1
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 13

PLATE 621

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-115-H3

CENTER COORDINATES ..... LONG. 145.26
LAT. −02.92
NORTH DEVIATION (DEG.) ..... 172.98
SUN ANGLE ..... 71.04
SPACECRAFT ALTITUDE (KM) ..... 1381.14

N

1 CENTIMETER ≈ 6 KILOMETERS

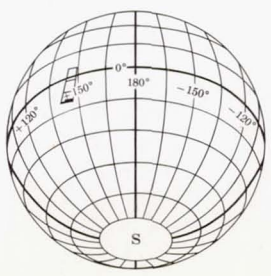
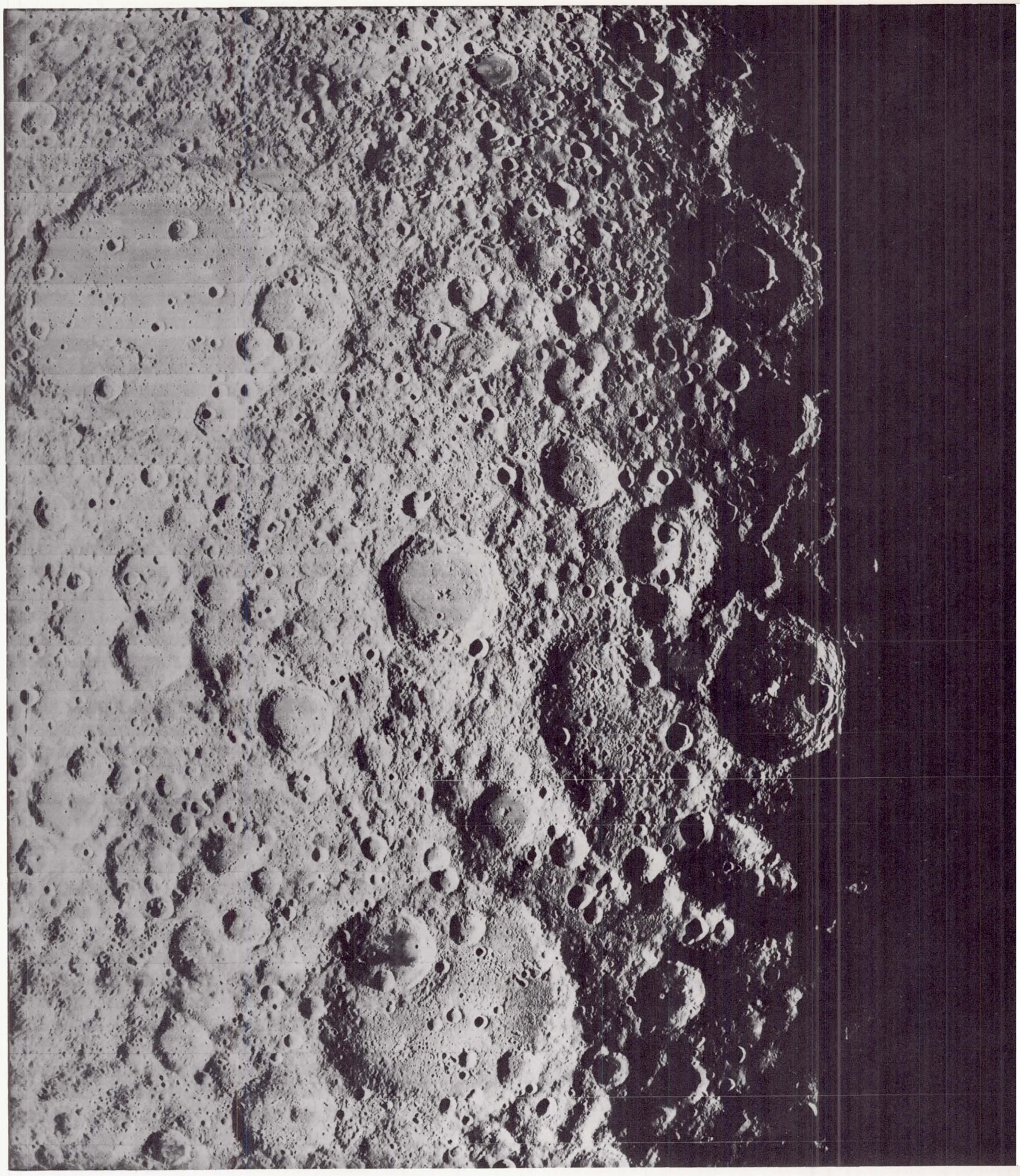
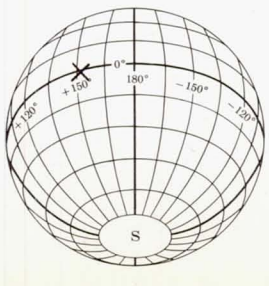



PLATE 622

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 47 KILOMETERS

N

PHOTO NO. I-116-M

CENTER COORDINATES ..... LONG. 153.
LAT. −01.
NORTH DEVIATION (DEG.) .....172.
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1456.

PLATE 623

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

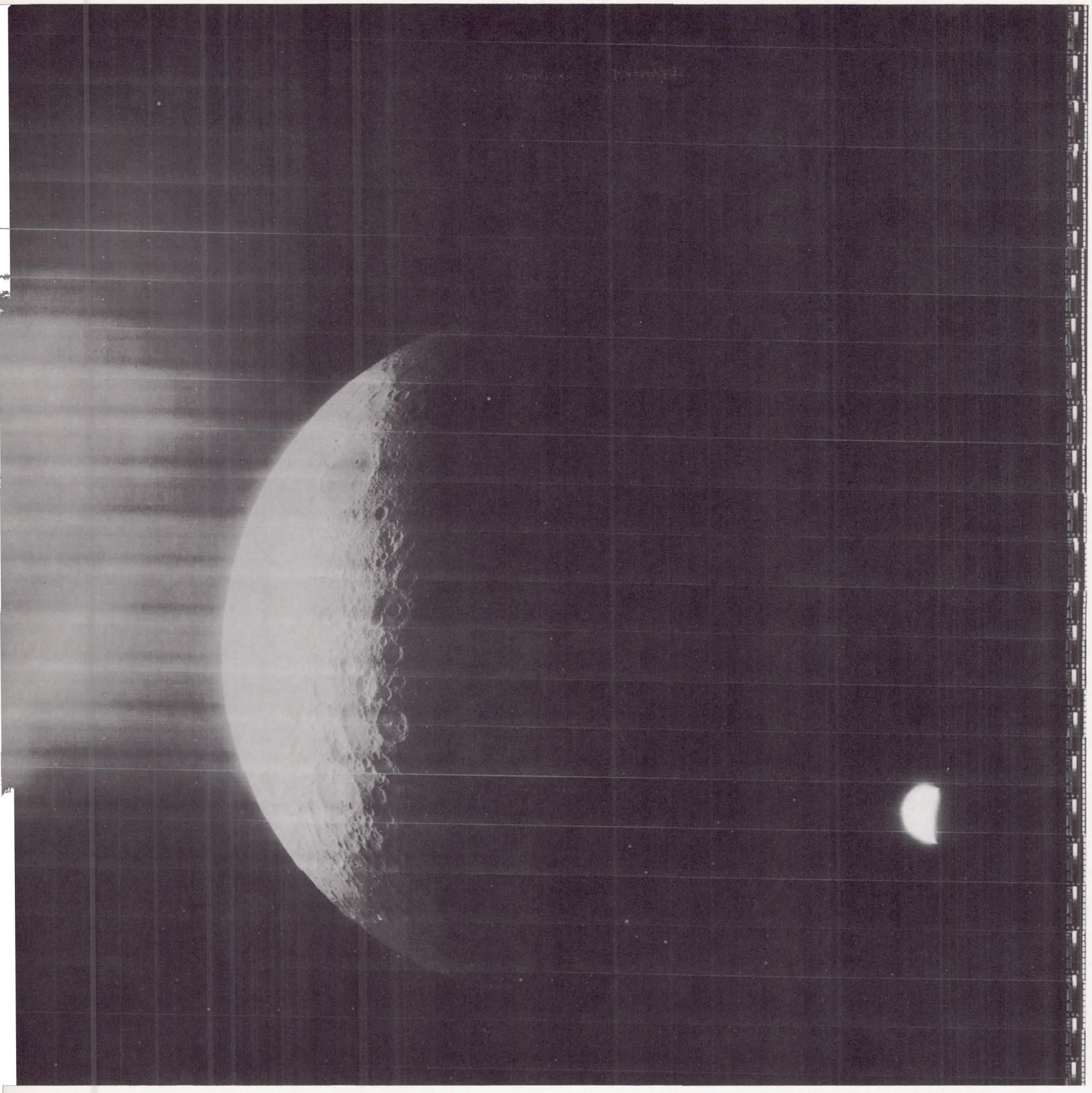


PHOTO NO. IV-99-M

ENTER COORDINATES ..... LONG. 179.92
LAT. 3.51
ORTH DEVIATION (DEG.) ..... 180.53
N ANGLE ..... 105.1
ACECRAFT ALTITUDE (KM) ..... 6142.23

N

1 CENTIMETER ≈ 195 KILOMETERS

MARE MOSCOVIENSE .....H5

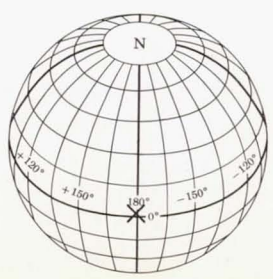
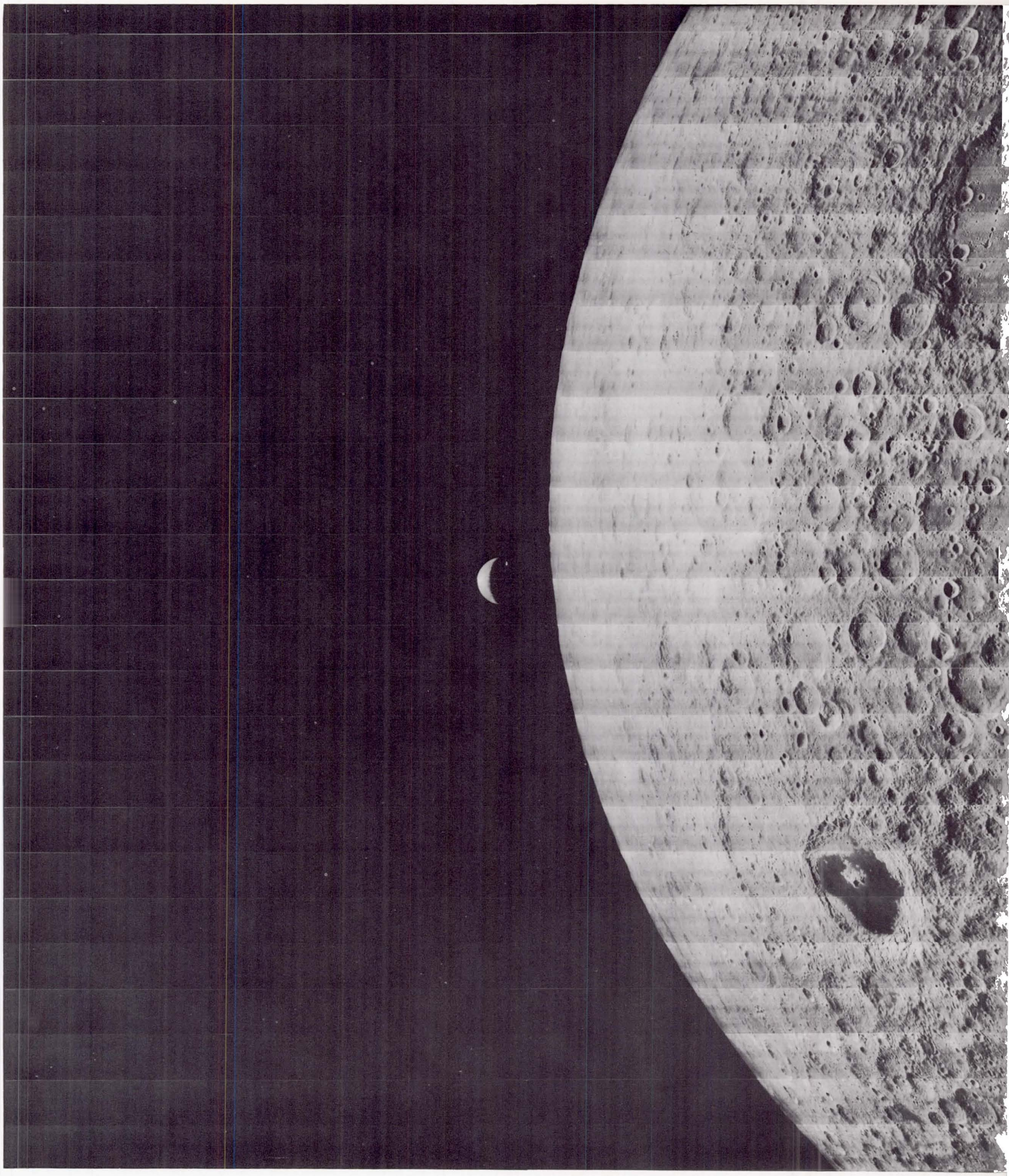
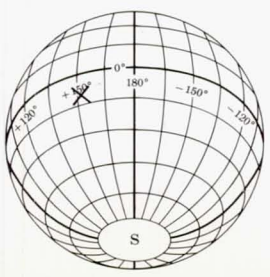



PLATE 624

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






TSIOLKOVSKY .. K11

N

PHOTO NO. I-117-M

CENTER COORDINATES ..... LONG. 152.
LAT.— 11.
NORTH DEVIATION (DEG.) .....
SUN ANGLE ..... 75
SPACECRAFT ALTITUDE (KM) ..... 1581.

PLATE 625

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

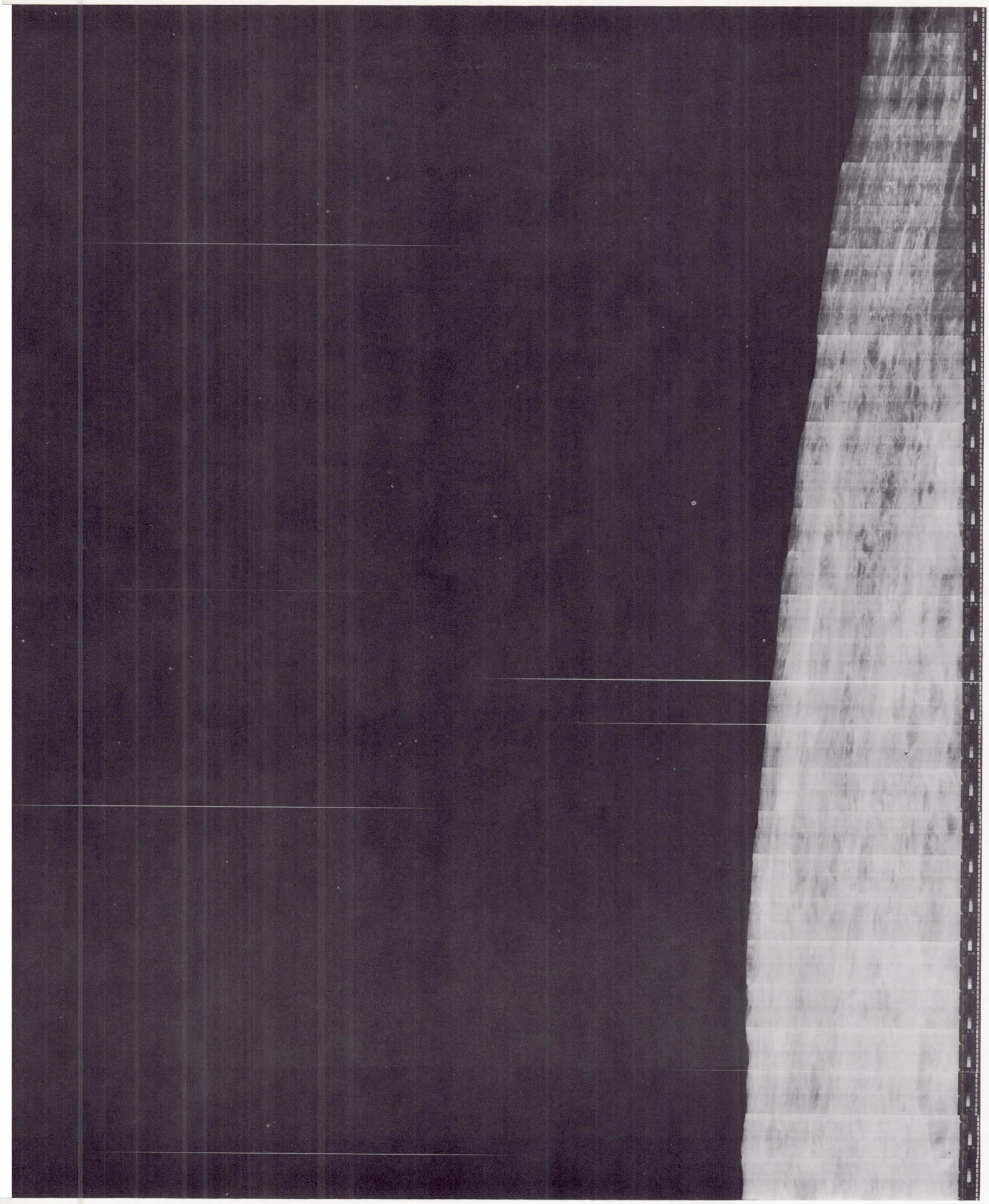


PHOTO NO. I-117-H1

NTER COORDINATES ..... LONG. 152.84
LAT. —11.66
ORTH DEVIATION (DEG.) .....
N ANGLE ..... 75.3
ACECRAFT ALTITUDE (KM) ..... 1581.27



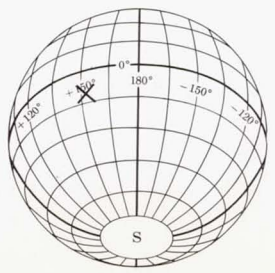
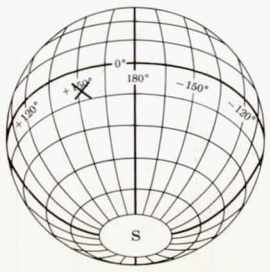




PLATE 626

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •




N

PHOTO NO. I-117-H2

CENTER COORDINATES ..... LONG.152
LAT. —11
NORTH DEVIATION (DEG.) .....
SUN ANGLE .....7
SPACECRAFT ALTITUDE (KM) .....1581

PLATE 627

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

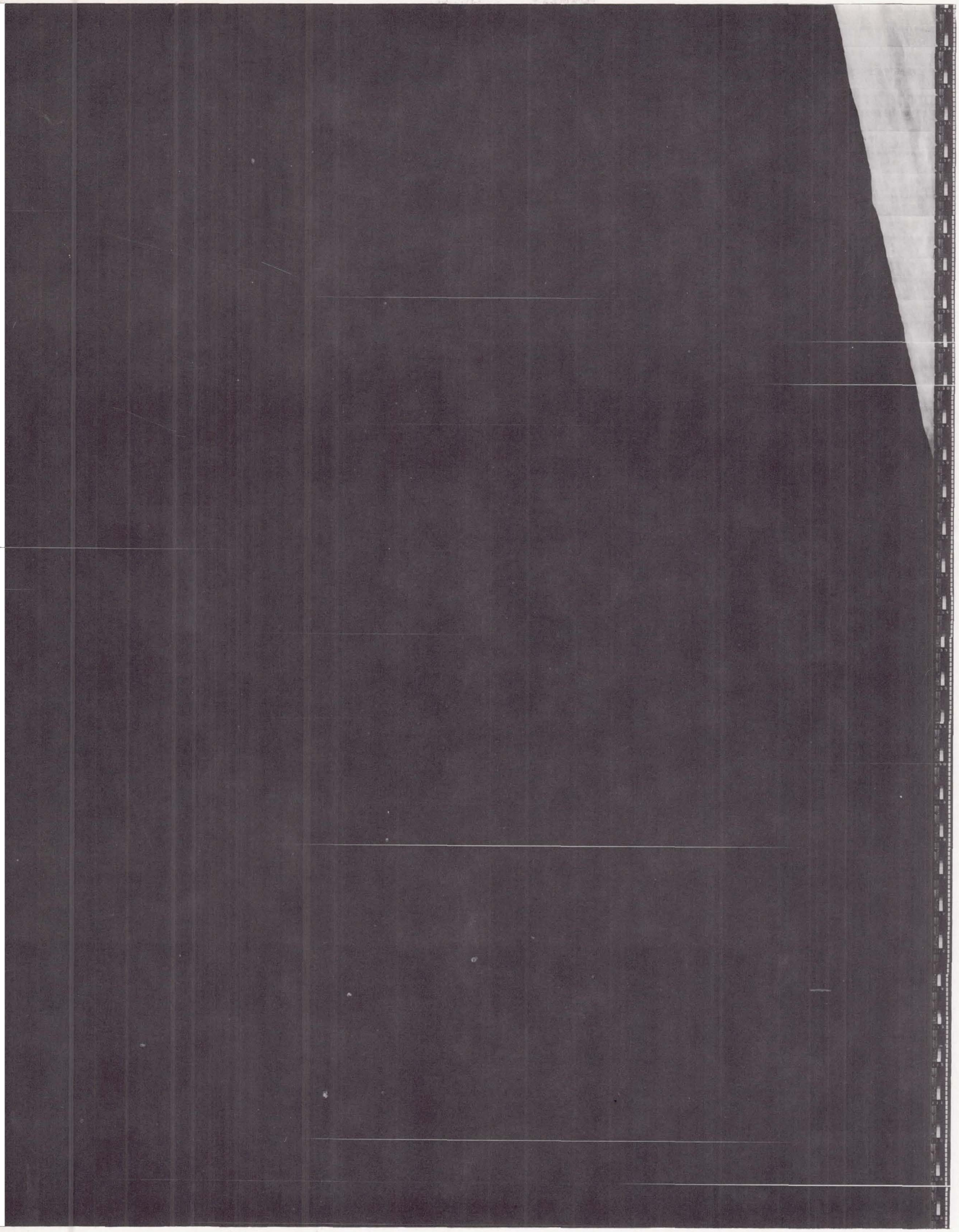


PHOTO NO. I-117-H3

ENTER COORDINATES ..... LONG. 152.84
LAT. —11.66
ORTH DEVIATION (DEG.) .....
UN ANGLE ..... 75.3
PACECRAFT ALTITUDE (KM) ..... 1581.27



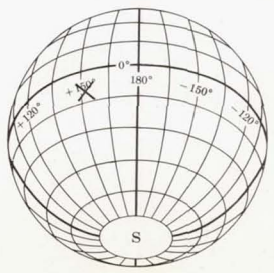
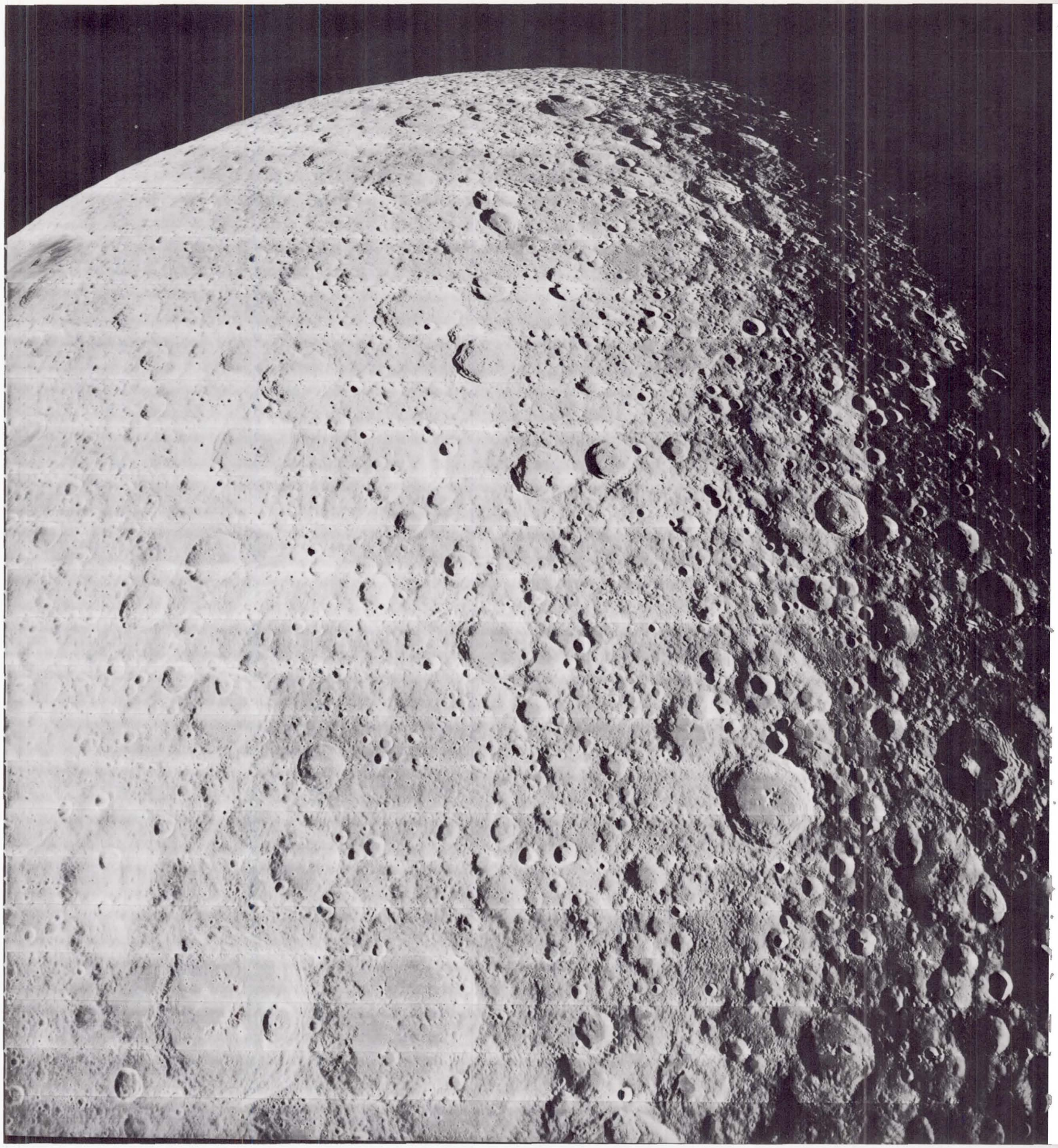
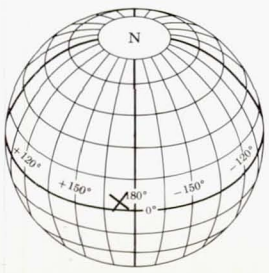




PLATE 628

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






MARE MOSCOVIENSE .... A3

1 CENTIMETER ≈ 50 KILOMETERS

N

PHOTO NO. II-34-M

CENTER COORDINATES ..... LONG. 173.
LAT. 4.
NORTH DEVIATION (DEG.) ..... 169.
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1452.

PLATE 629



PHOTO NO. II-34-H1

NTER COORDINATES ..... LONG. 173.55
LAT 4.71
ORTH DEVIATION (DEG.) ..... 169.78
N ANGLE ..... 70.8
ACECRAFT ALTITUDE (KM) ..... 1452.54

N

1 CENTIMETER ≈65 KILOMETERS

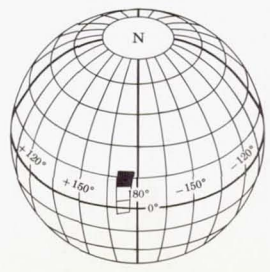
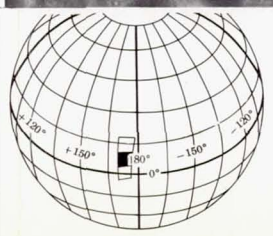



PLATE 630

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER≈ 65 KILOMETERS

N

PHOTO NO. II-34-H2

CENTER COORDINATES ..... LONG. 173
LAT.
NORTH DEVIATION (DEG.) ..... 169
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 1452

PLATE 631

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. II-34-H3

NTER COORDINATES ..... LONG. 173.55
LAT. 4.71
RTH DEVIATION (DEG.) ..... 169.78
N ANGLE ..... 70.8
CECRAFT ALTITUDE (KM) ..... 1452.54

N

1 CENTIMETER ≈ 65 KILOMETERS

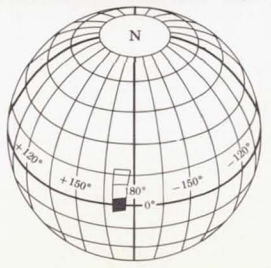
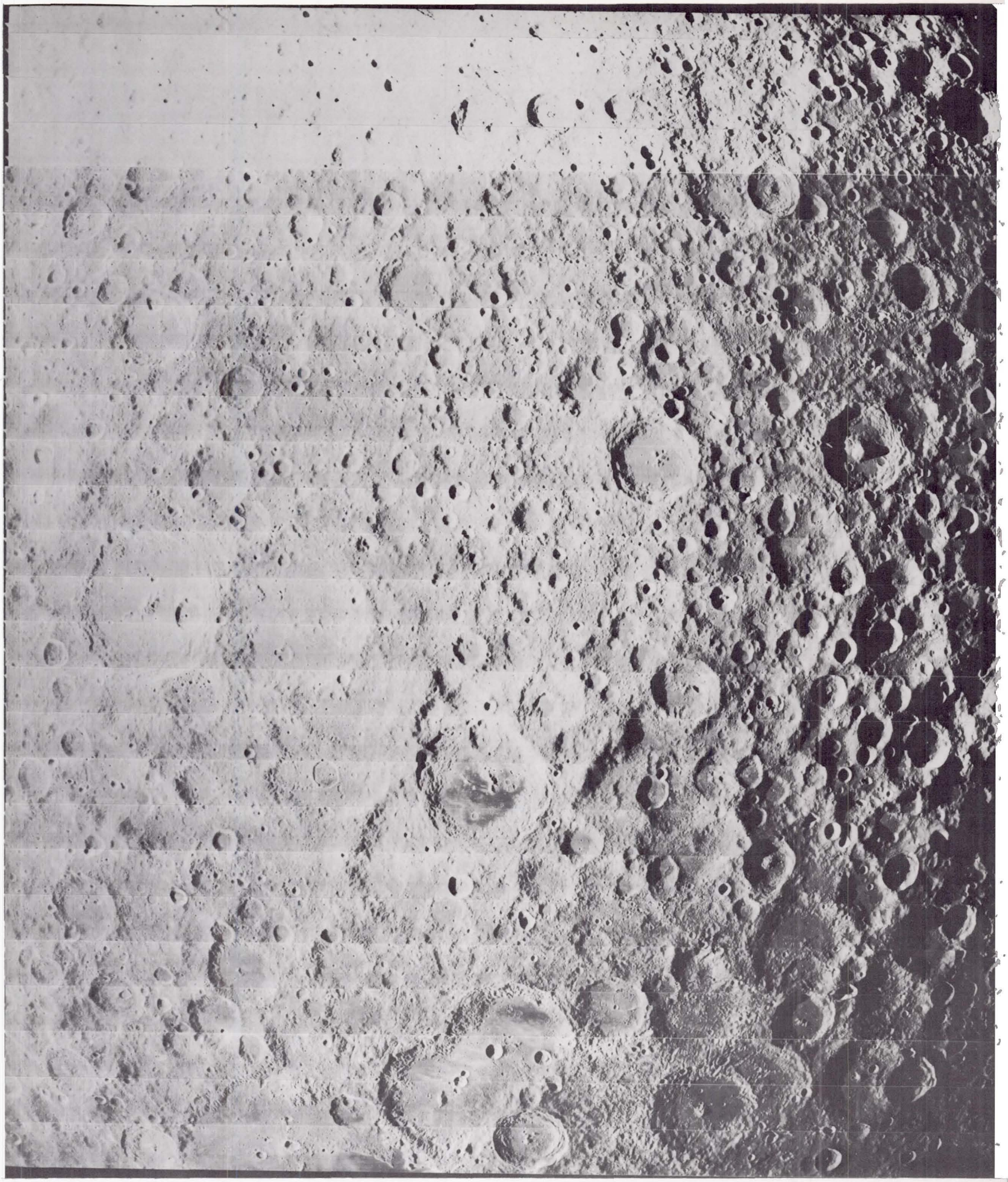
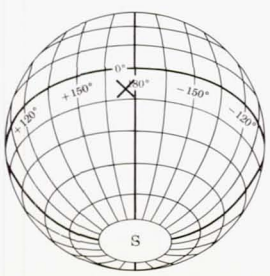



PLATE 632

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER≈ 50 KILOMETERS

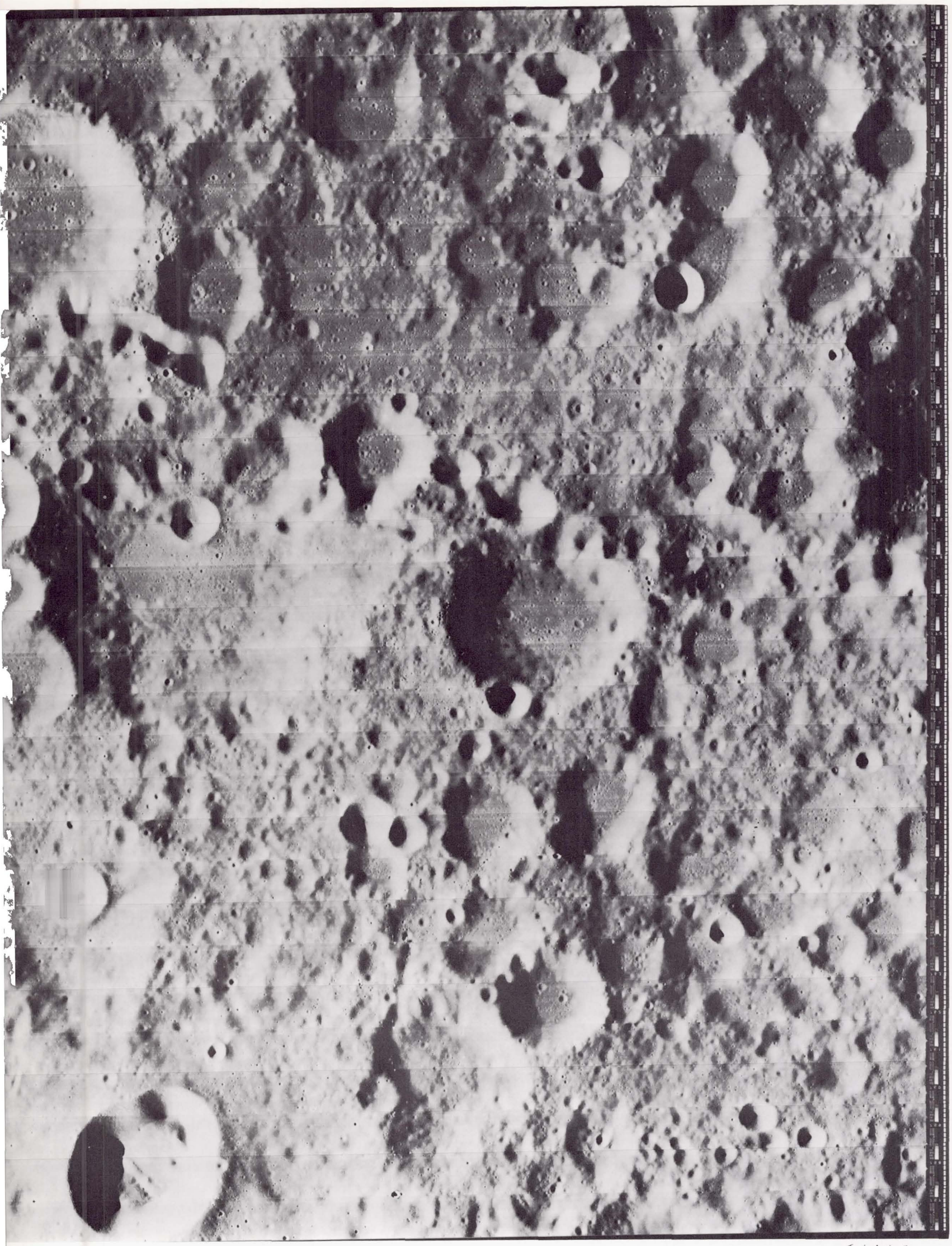
N

PHOTO NO. II-33-M

CENTER COORDINATES ..... LONG. 174.
LAT. —10.
NORTH DEVIATION (DEG.) ..... 176.
SUN ANGLE ..... 69
SPACECRAFT ALTITUDE (KM) ..... 1454.

PLATE 633

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. II-33-H1

ENTER COORDINATES ..... LONG. 174.09
LAT. −10.29
ORTH DEVIATION (DEG.) ..... 176.72
JN ANGLE ..... 69.8
PACECRAFT ALTITUDE (KM) ..... 1454.65

N

1 CENTIMETER ≈ 6 KILOMETERS

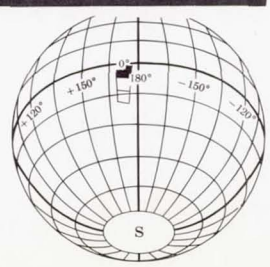
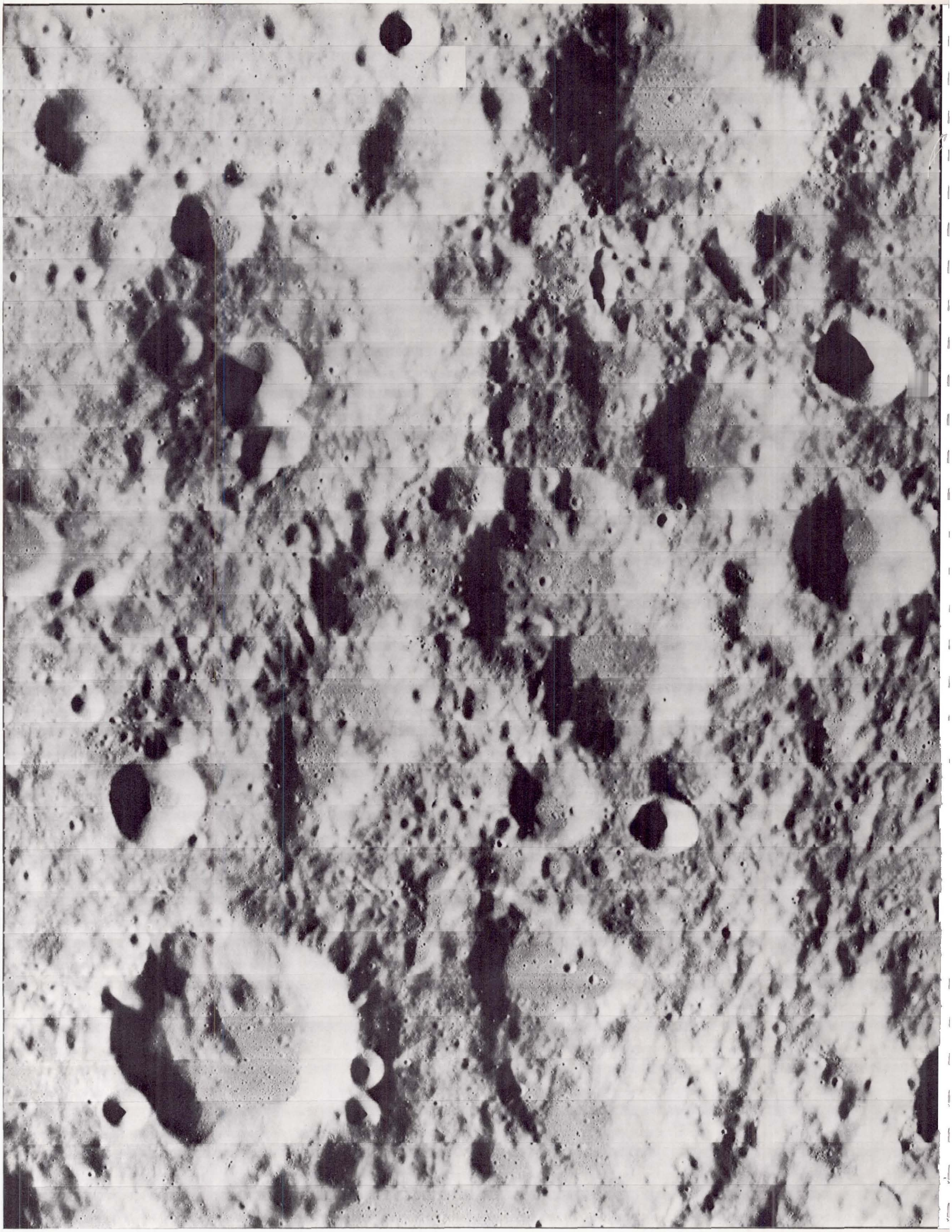
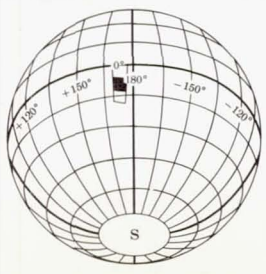



PLATE 634

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

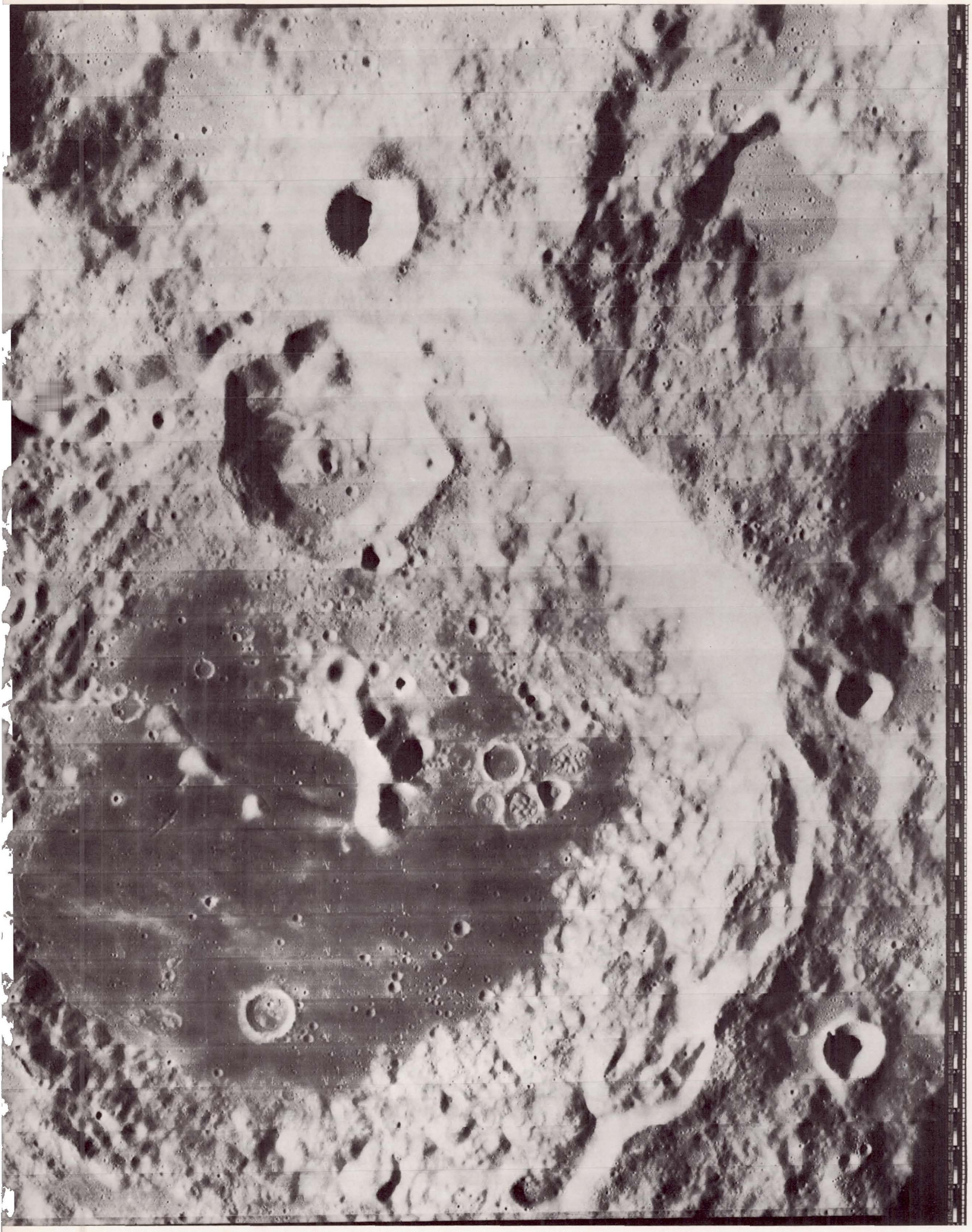
N

PHOTO NO. II-33-H2

CENTER COORDINATES ..... LONG. 174
LAT. —10
NORTH DEVIATION (DEG.) .....176.
SUN ANGLE ..... 6
SPACECRAFT ALTITUDE (KM) ..... 1454

PLATE 635

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. II-33-H3

NTER COORDINATES ..... LONG. 174.09
LAT. −10.29
ORTH DEVIATION (DEG.) ..... 176.72
N ANGLE ..... 69.8
ACECRAFT ALTITUDE (KM) ..... 1454.65

N

1 CENTIMETER ≈ 6 KILOMETERS

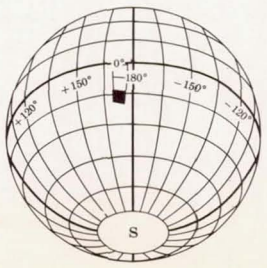
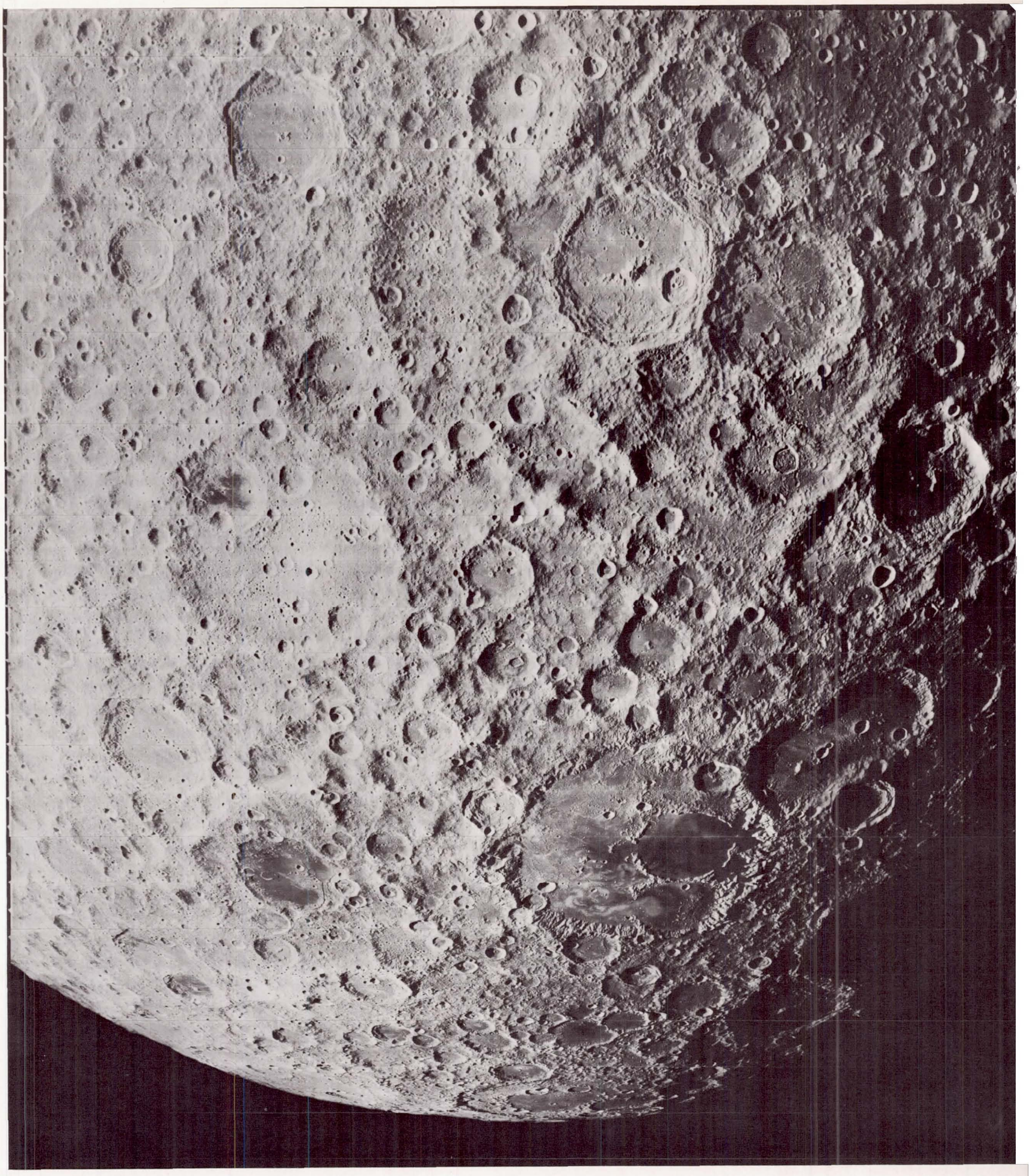
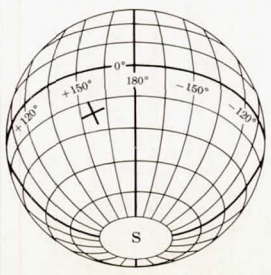



PLATE 636

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






JULES VERNE .... D11

1 CENTIMETER ≈ 49 KILOMETERS

N

PHOTO NO. II-75-M

CENTER COORDINATES ..... LONG. 157.
LAT. —21.
NORTH DEVIATION (DEG.) .....181.
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1468.

PLATE 637

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

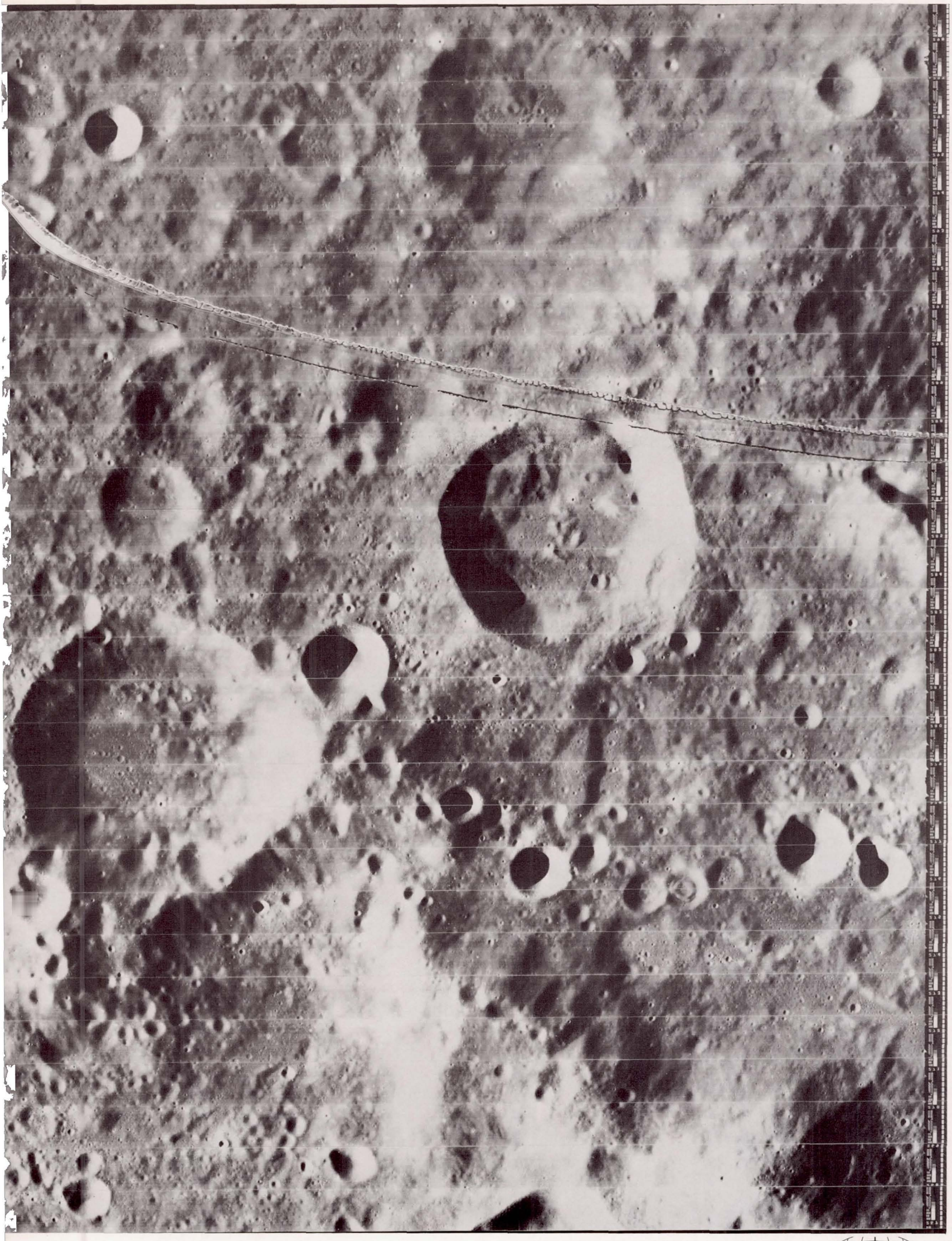


PHOTO NO. II-75-H1

ENTER COORDINATES ..... LONG. 158.01
LAT. —21.10
ORTH DEVIATION (DEG.) ..... 181.09
N ANGLE ..... 70.6
ACECRAFT ALTITUDE (KM) ..... 1468.65

N

1 CENTIMETER ≈ 6 KILOMETERS

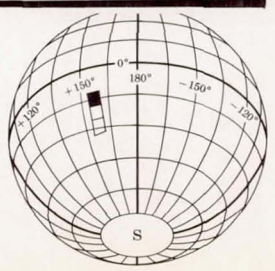
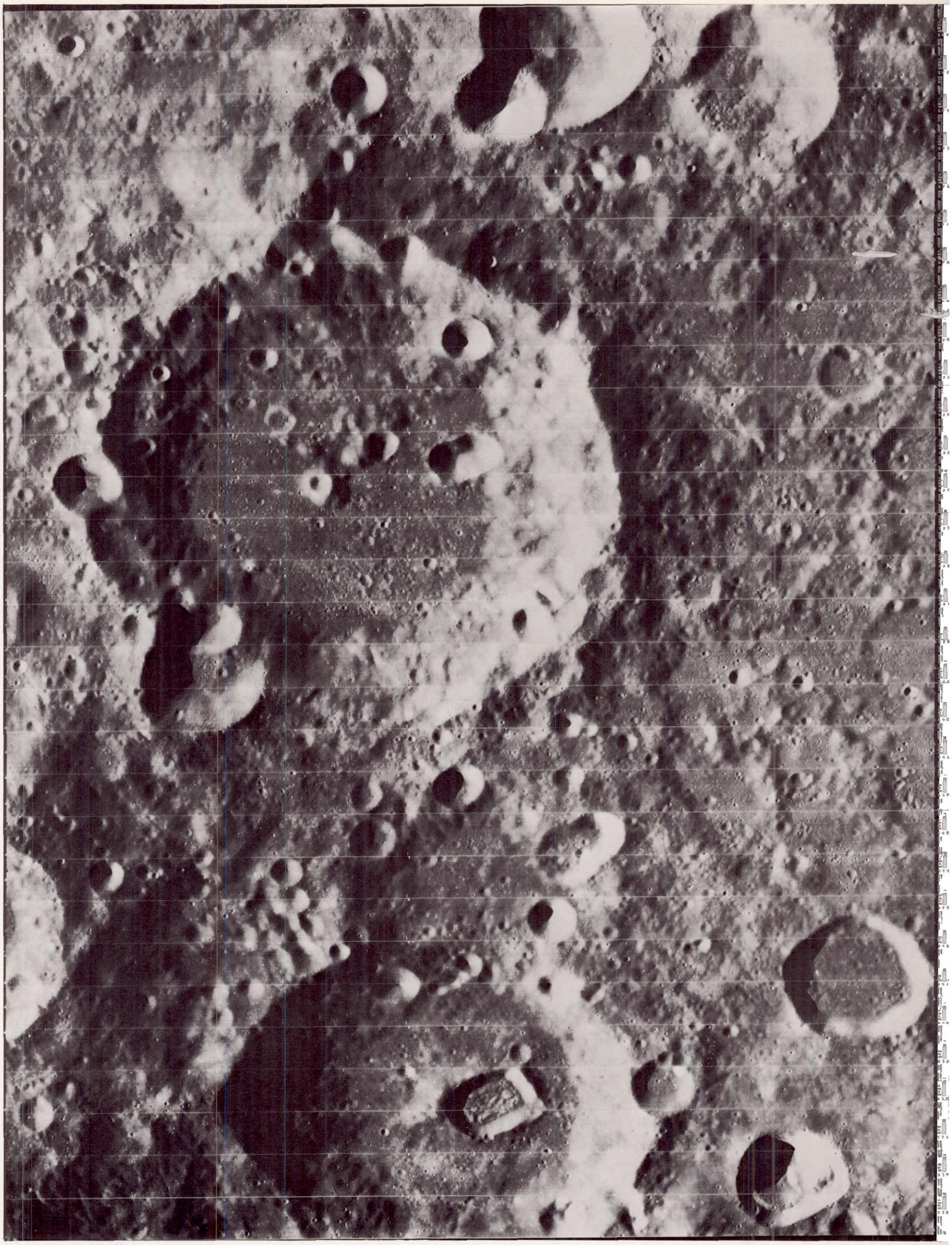
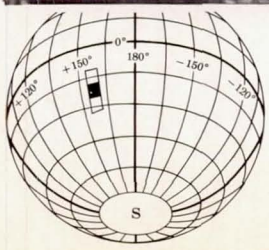



PLATE 638

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. II-75-H2

CENTER COORDINATES ..... LONG. 158.
LAT. —21.
NORTH DEVIATION (DEG.) ..... 181.
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1468.

PLATE 639

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

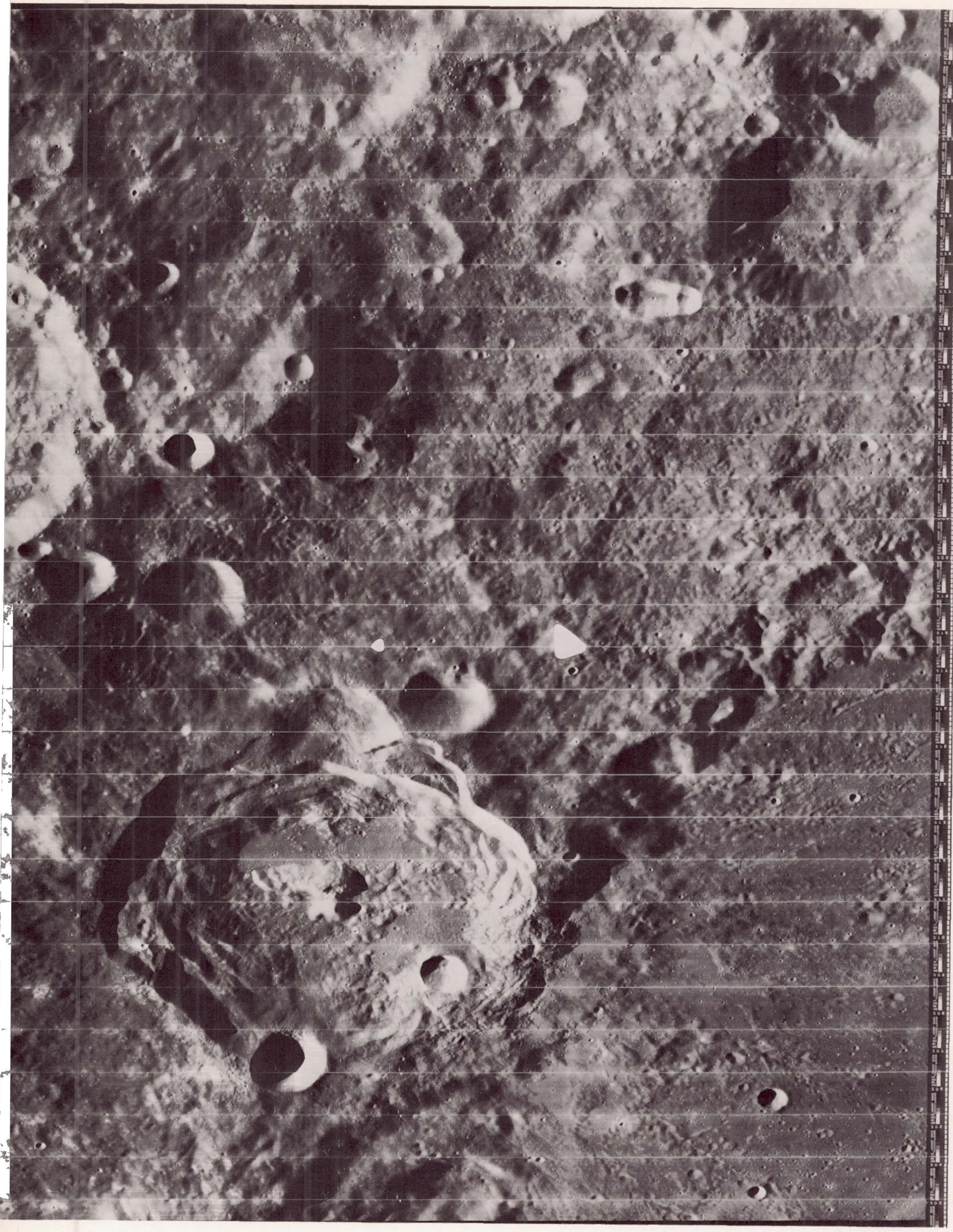


PHOTO NO. II-75-H3

CENTER COORDINATES ..... LONG. 158.01
LAT. —21.10
NORTH DEVIATION (DEG.) ..... 181.09
SUN ANGLE ..... 70.6
SPACECRAFT ALTITUDE (KM) ..... 1468.65

N

1 CENTIMETER ≈ 6 KILOMETERS

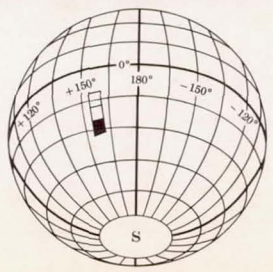
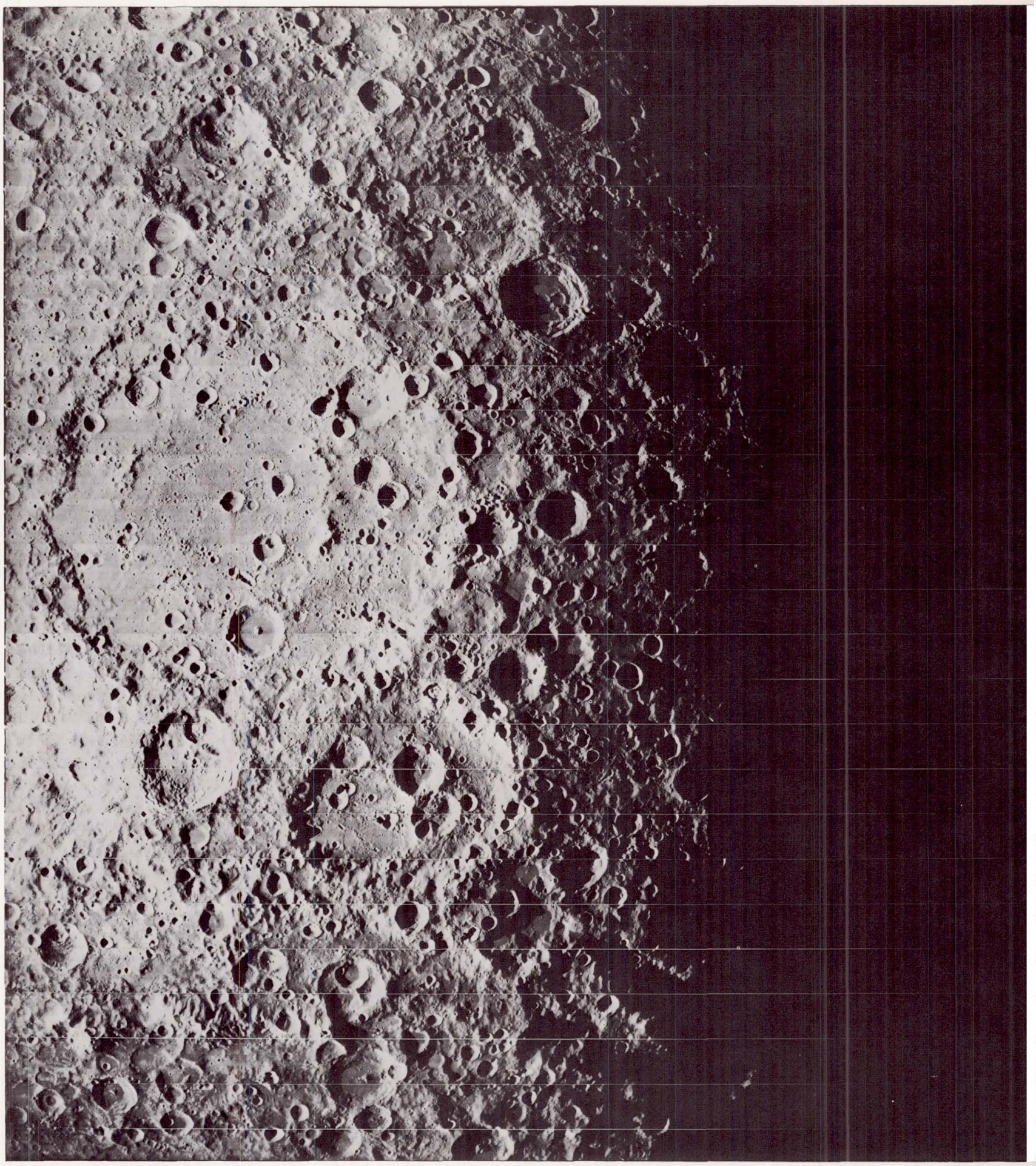
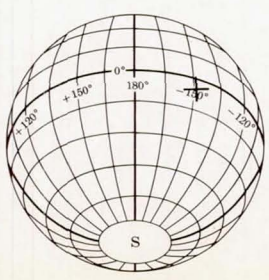



PLATE 640

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 47 KILOMETERS

N

PHOTO NO. I-40-M

CENTER COORDINATES ..... LONG. —148.7
LAT. —06.4
NORTH DEVIATION (DEG.) ..... 176.2
SUN ANGLE ..... 83.
SPACECRAFT ALTITUDE (KM) ..... 1453.9

PLATE 641

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

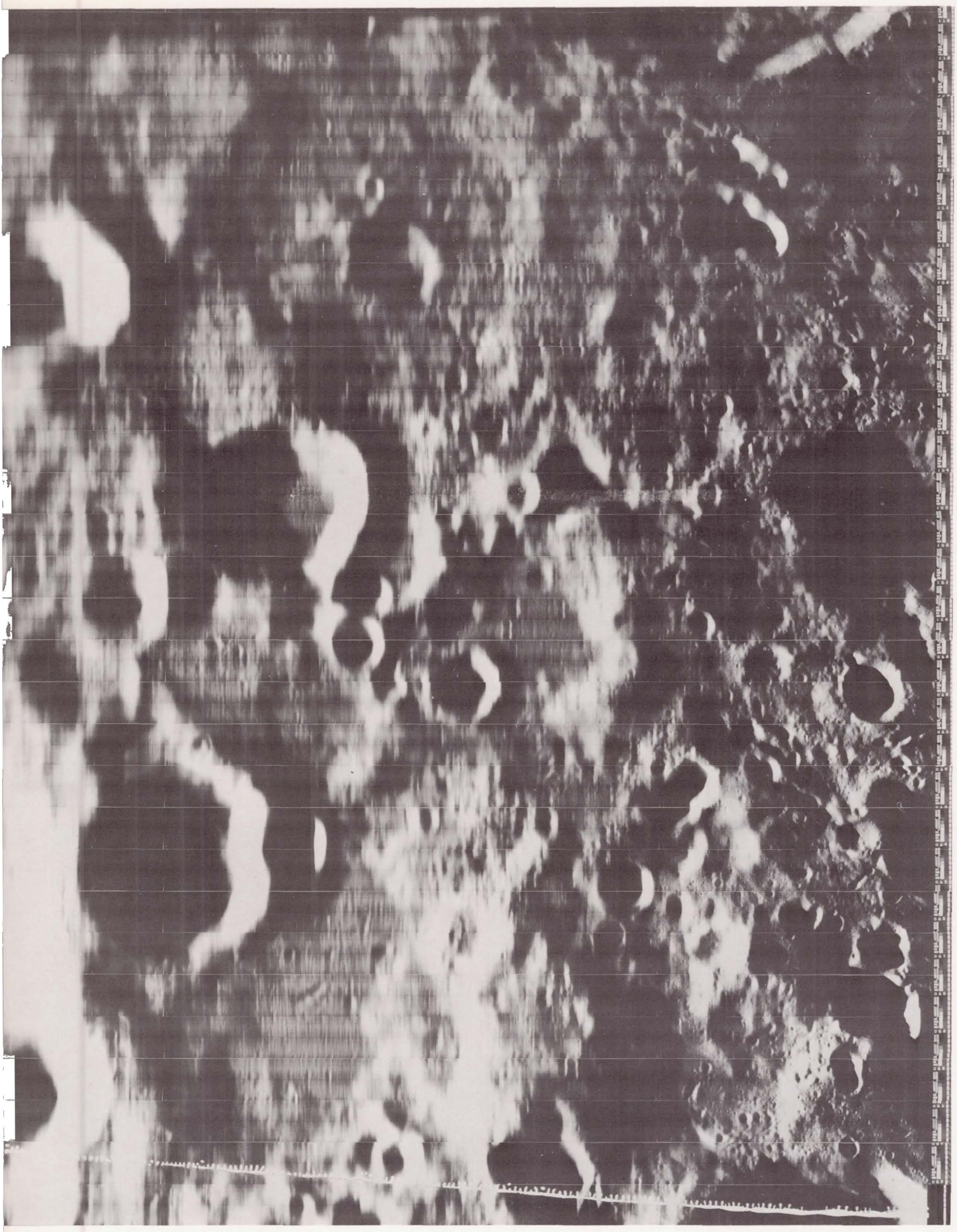


PHOTO NO. I-40-H1

ENTER COORDINATES ..... LONG. —148.73
LAT. —06.44
ORTH DEVIATION (DEG.) ..... 176.26
JN ANGLE ..... 83.6
PACECRAFT ALTITUDE (KM) ..... 1453.91

N

1 CENTIMETER ≈ 6 KILOMETERS

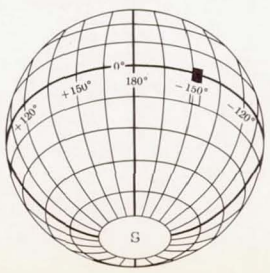
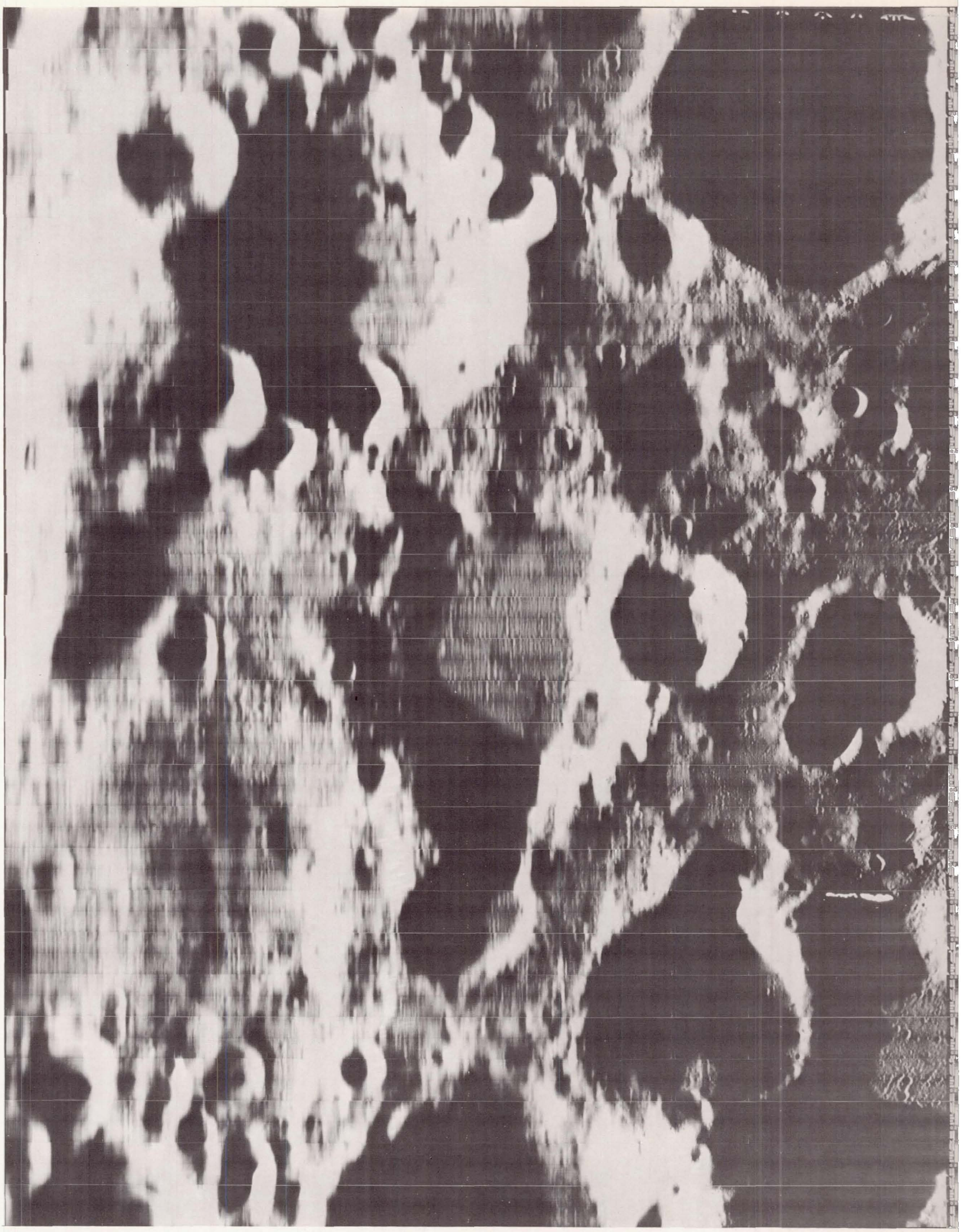
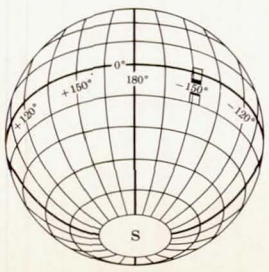



PLATE 642

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. I-40-H2

CENTER COORDINATES ..... LONG. —148.
LAT. —06.
NORTH DEVIATION (DEG.) ..... 176.
SUN ANGLE ..... 83
SPACECRAFT ALTITUDE (KM) ..... 1453.

PLATE 643

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

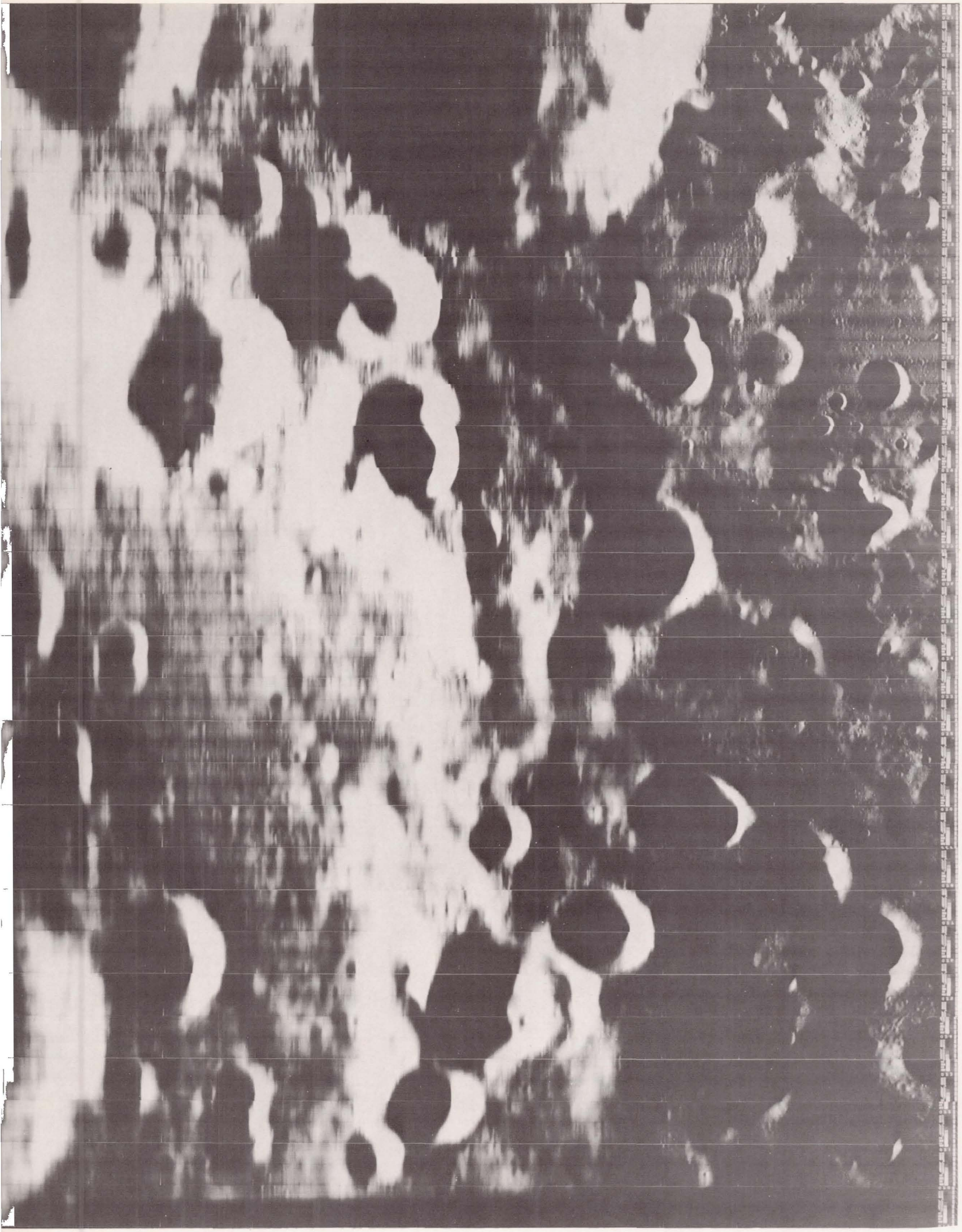


PHOTO NO. I-40-H3

NTER COORDINATES ..... LONG. —148.73
LAT. —06.44
RTH DEVIATION (DEG.) ..... 176.26
N ANGLE ..... 83.6
ACECRAFT ALTITUDE (KM) ..... 1453.91

N

1 CENTIMETER ≈ 6 KILOMETERS

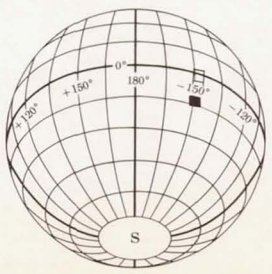
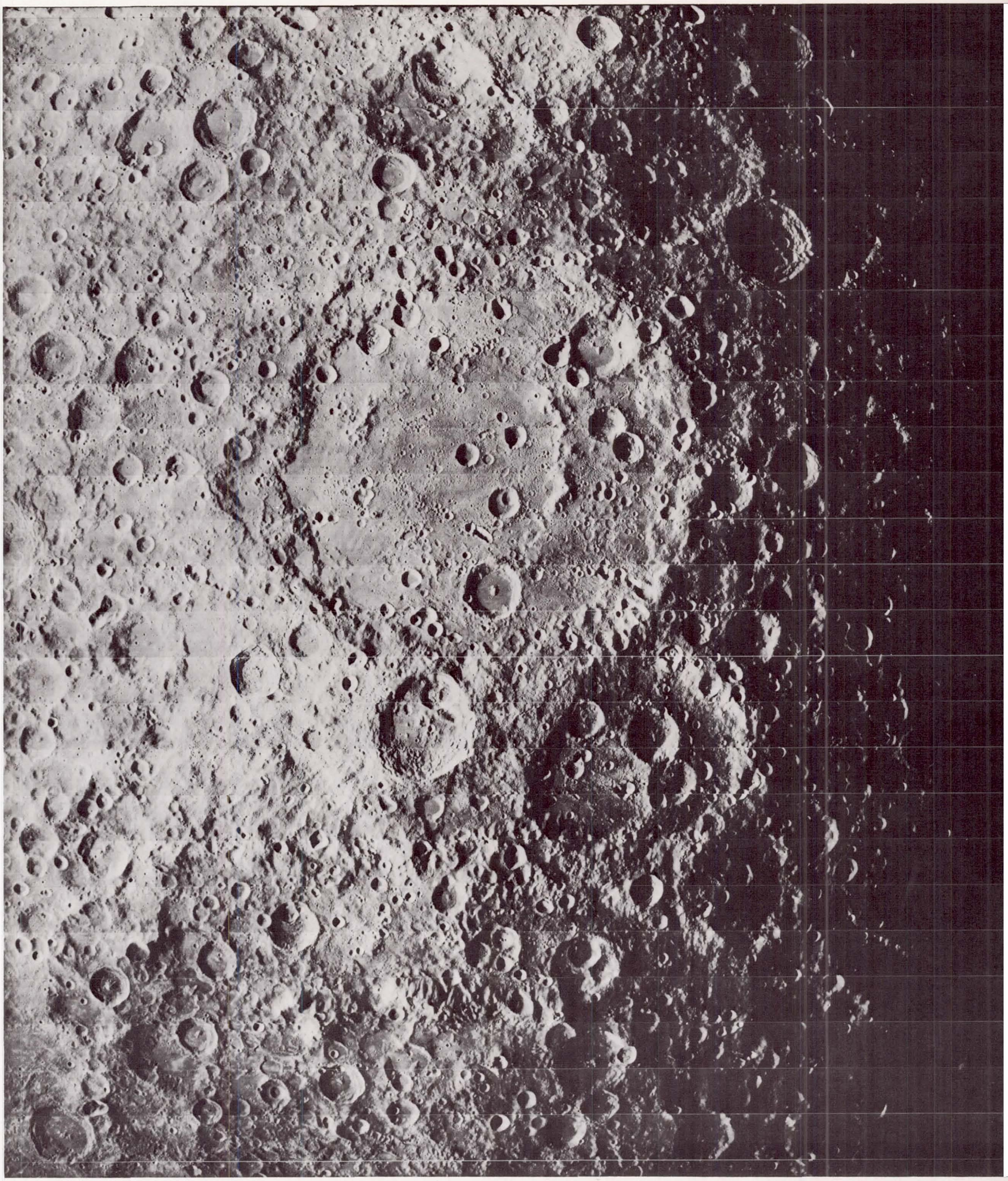
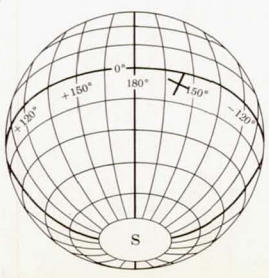



PLATE 644

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 44 KILOMETERS

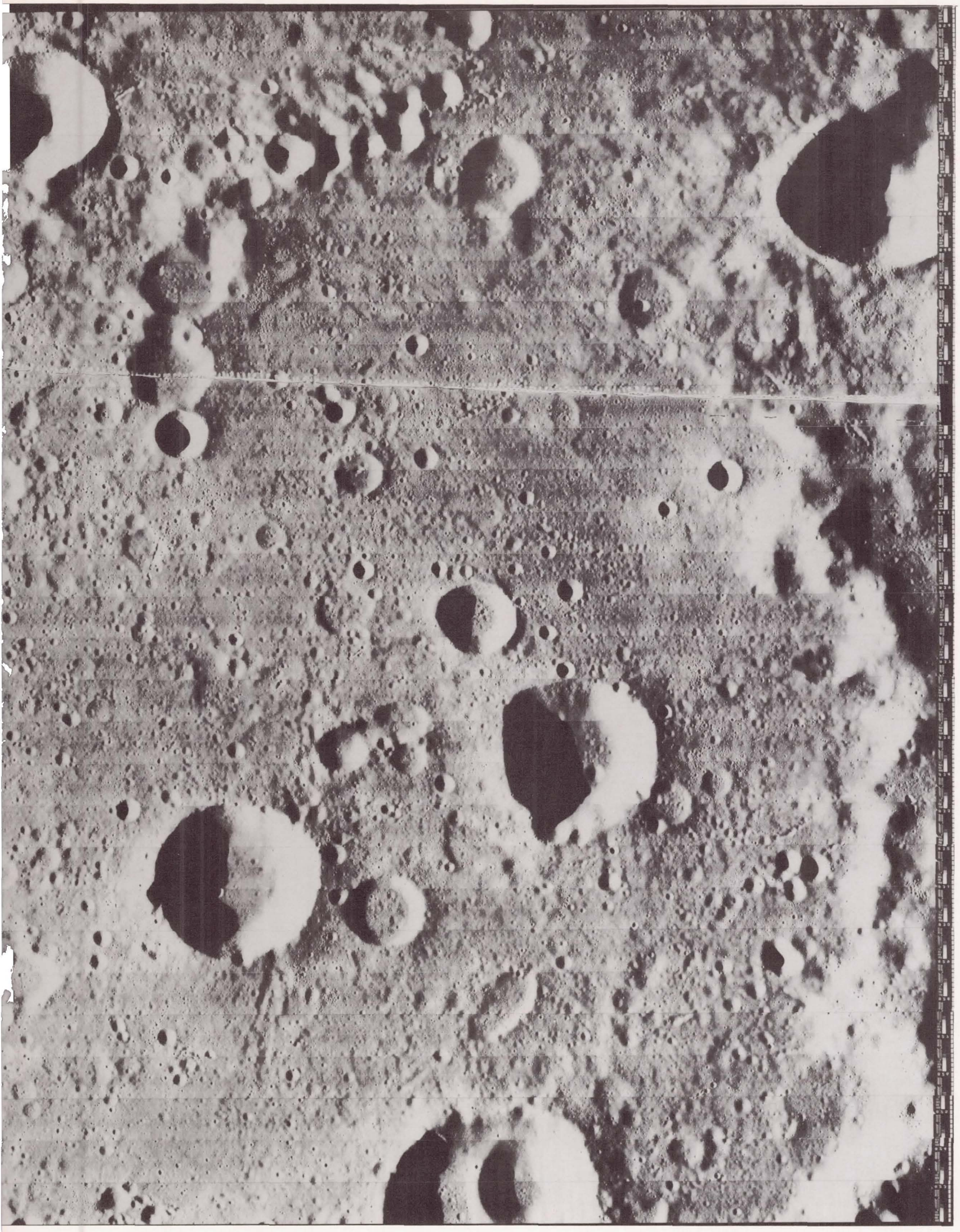
N

PHOTO NO. I-38-M

CENTER COORDINATES ..... LONG. —157
LAT. —07
NORTH DEVIATION (DEG.) ..... 175
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1385

PLATE 645

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-38-H1

| | | |
|---|---|---|
| ʒTER COORDINATES ..... | LONG. | −157.26 |
| | LAT. | −07.90 |
| RTH DEVIATION (DEG.) ..... | | 175.44 |
| ANGLE ..... | | 75.2 |
| CECRAFT ALTITUDE (KM) ..... | | 1385.15 |

N

1 CENTIMETER ≈ 6 KILOMETERS

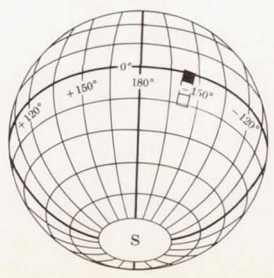
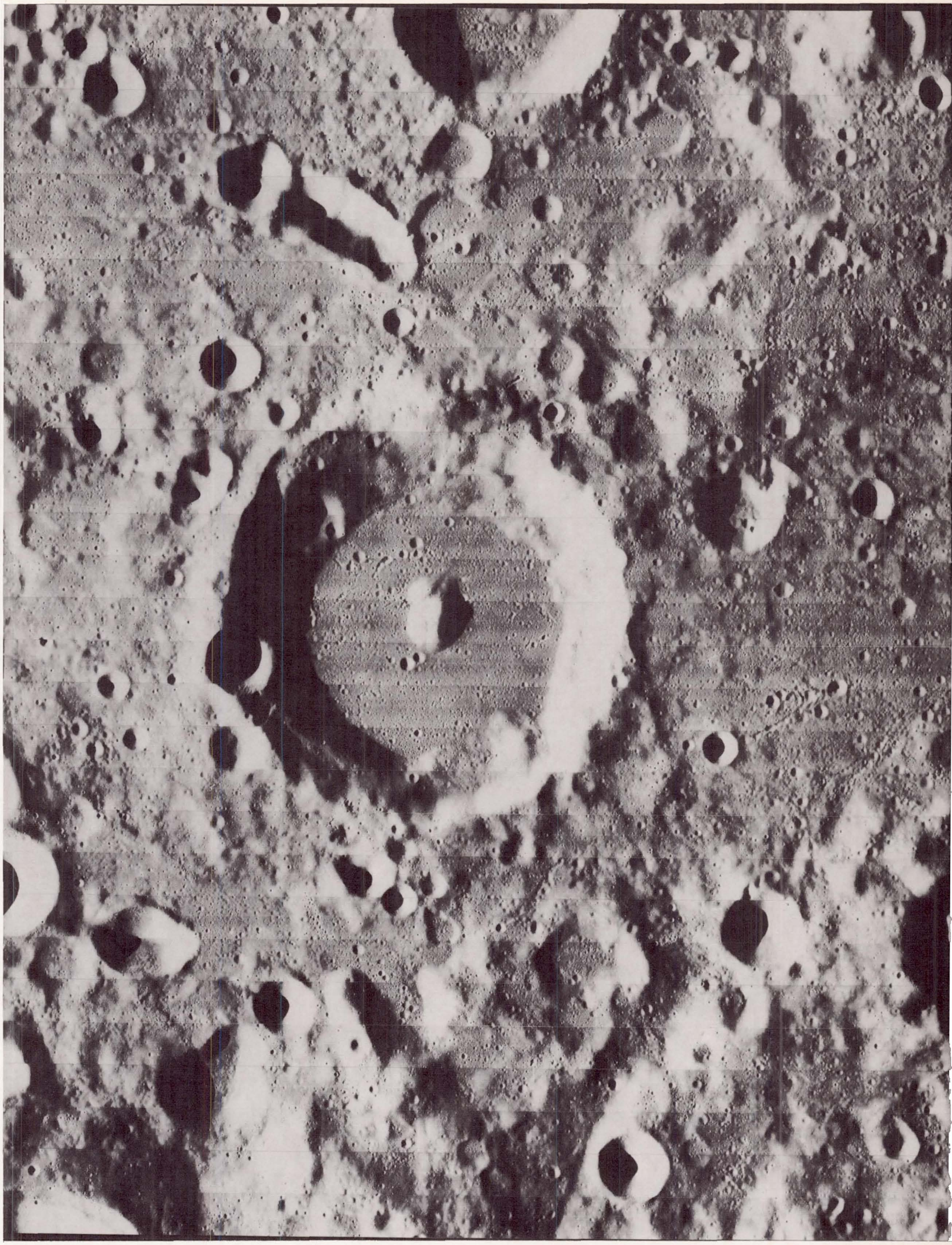
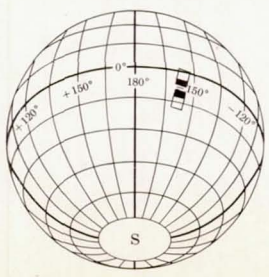



PLATE 646

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER≈ 6 KILOMETERS

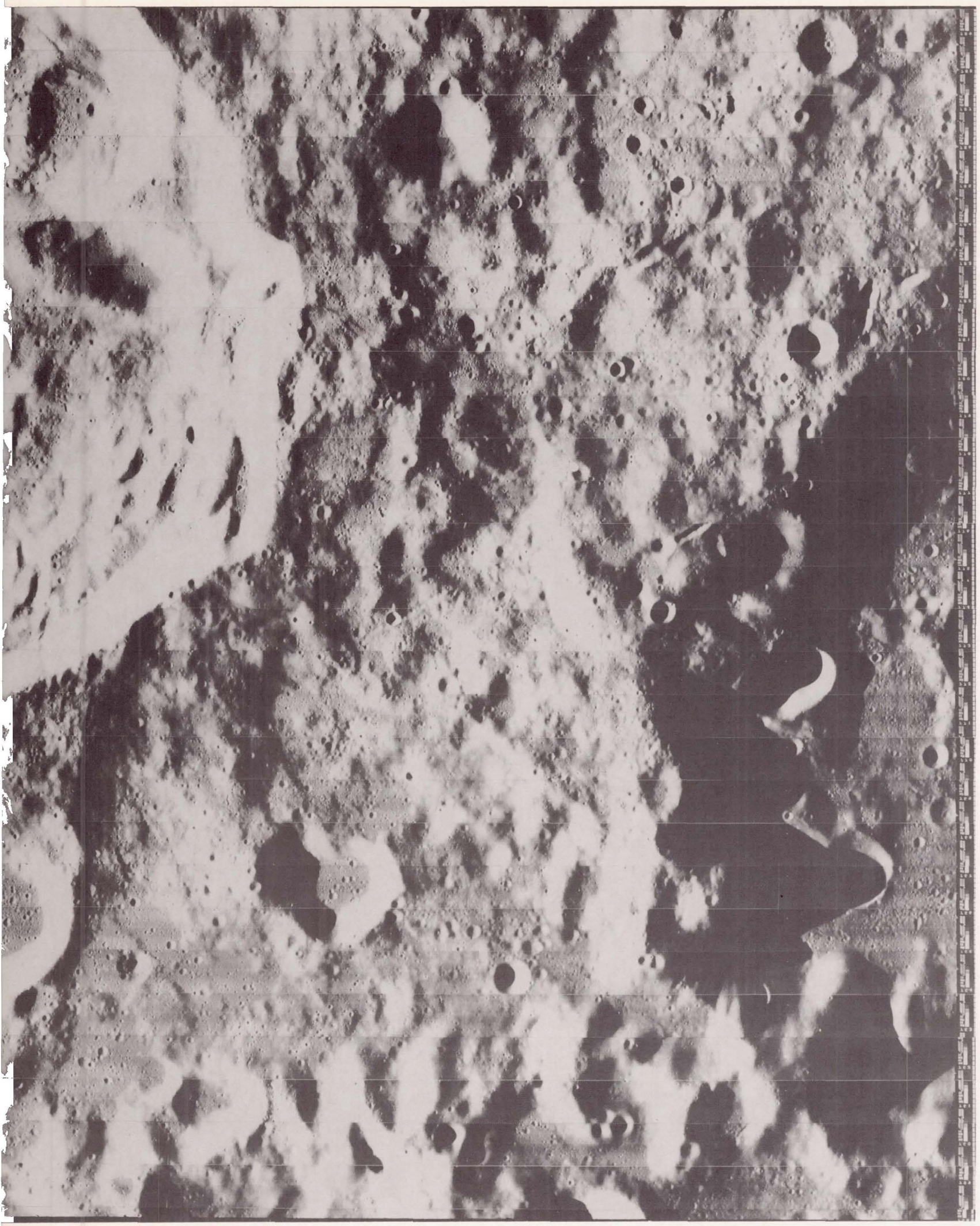
N

PHOTO NO. I-38-H2

CENTER COORDINATES ..... LONG. —15
LAT. —0
NORTH DEVIATION (DEG.) ..... 17
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) ..... 138

PLATE 647

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-38-H3

NTER COORDINATES ..... LONG —157.26
LAT. —07.90
RTH DEVIATION (DEG.) ..... 175.44
N ANGLE ..... 75.2
ACECRAFT ALTITUDE (KM) ..... 1385.15

N

1 CENTIMETER ≈ 6 KILOMETERS

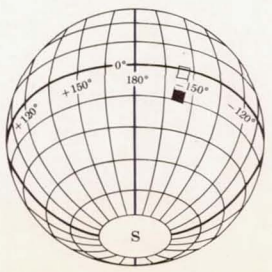
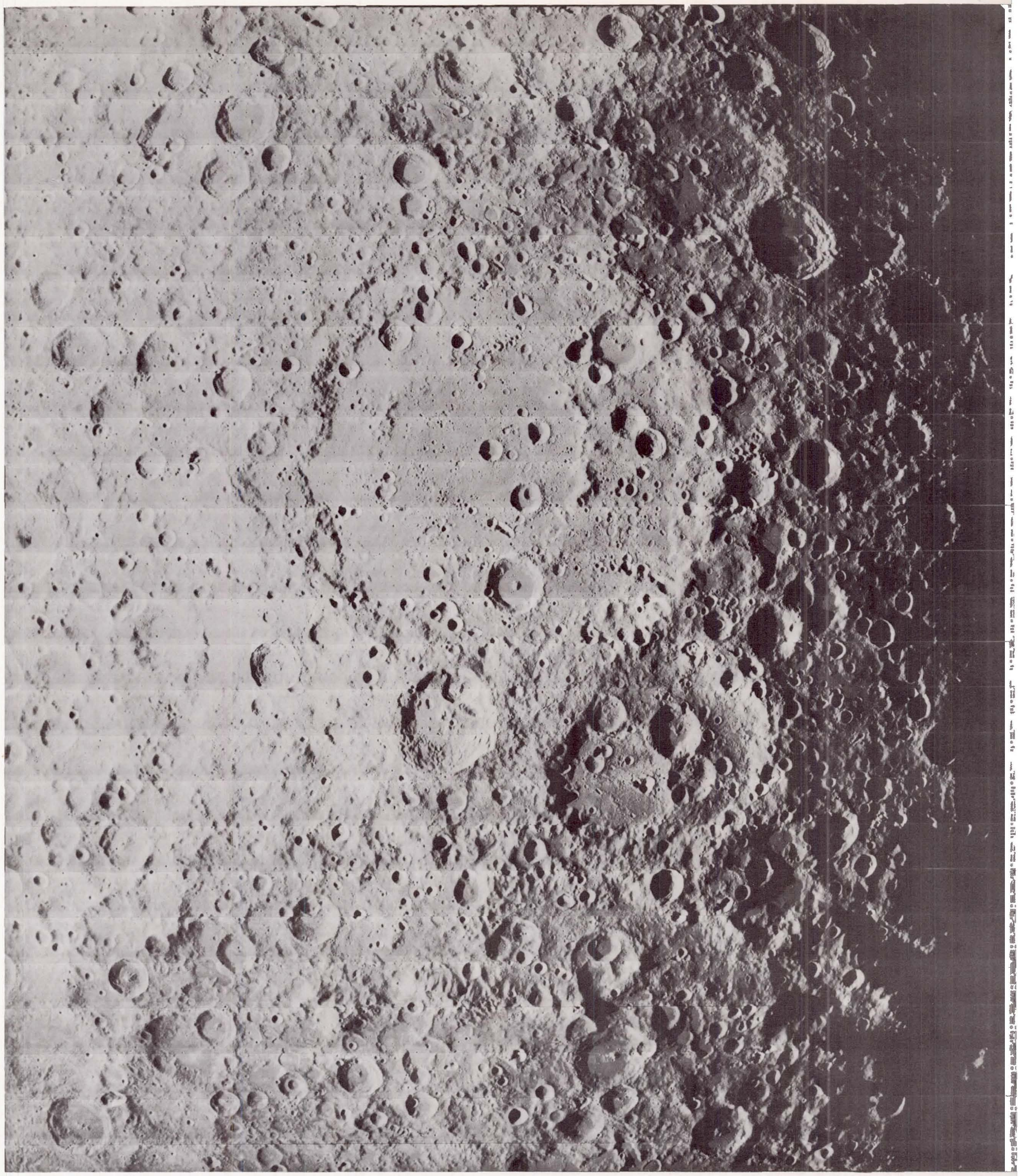
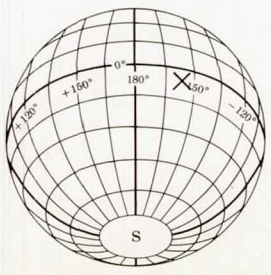



PLATE 648

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 44 KILOMETERS

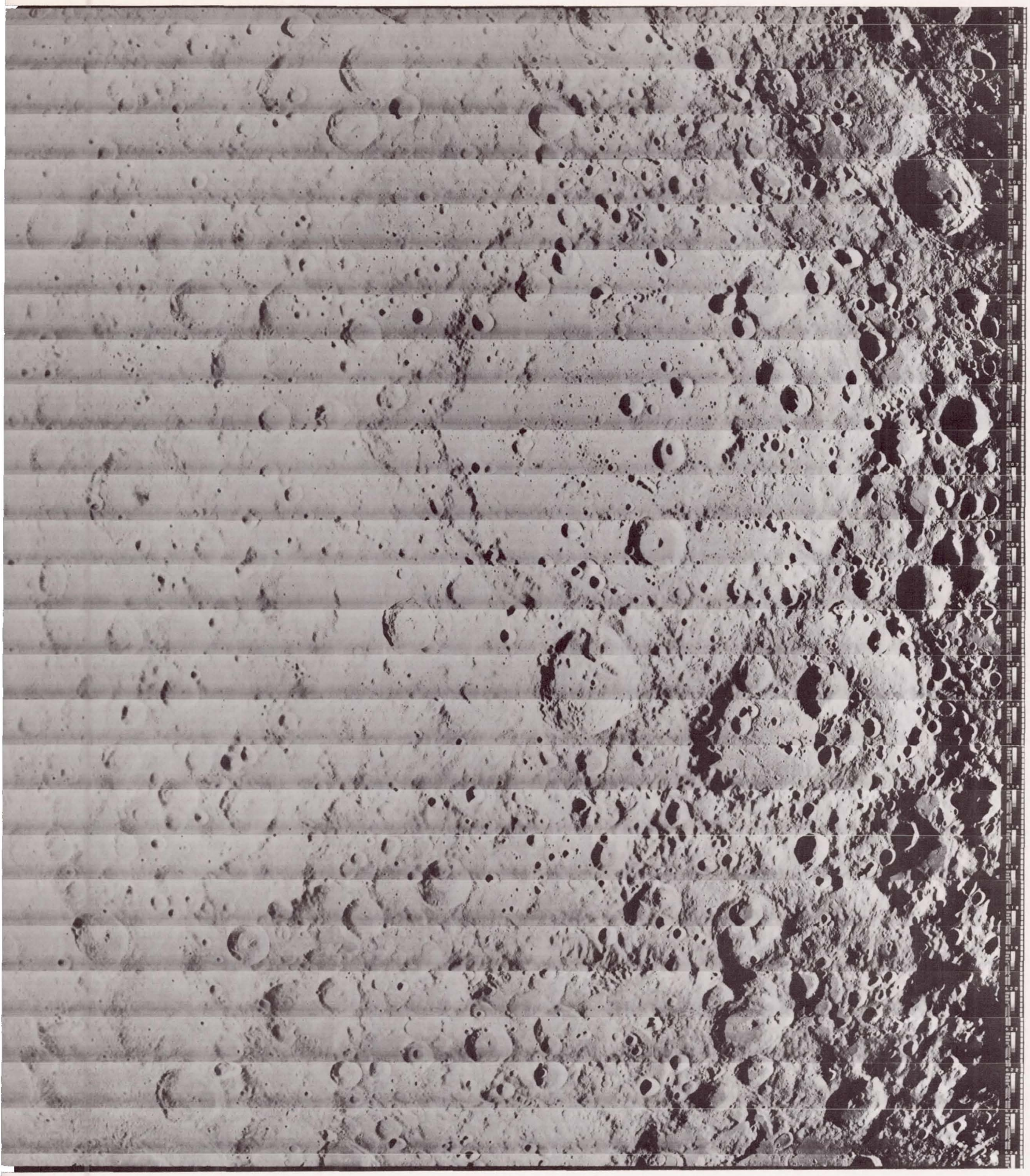
N

PHOTO NO. I-37-M

CENTER COORDINATES ..... LONG.—157.
LAT. —07.
NORTH DEVIATION (DEG.) ..... 175.
SUN ANGLE ..... 74
SPACECRAFT ALTITUDE (KM) ..... 1380.

PLATE 649

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-35-M

NTER COORDINATES ..... LONG. —162.60
LAT. —08.72
RTH DEVIATION (DEG.) ..... 174.70
N ANGLE ..... 70.0
ACECRAFT ALTITUDE (KM) ..... 1339.45

N

1 CENTIMETER ≈ 42 KILOMETERS

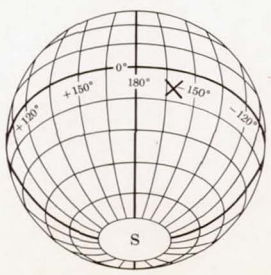
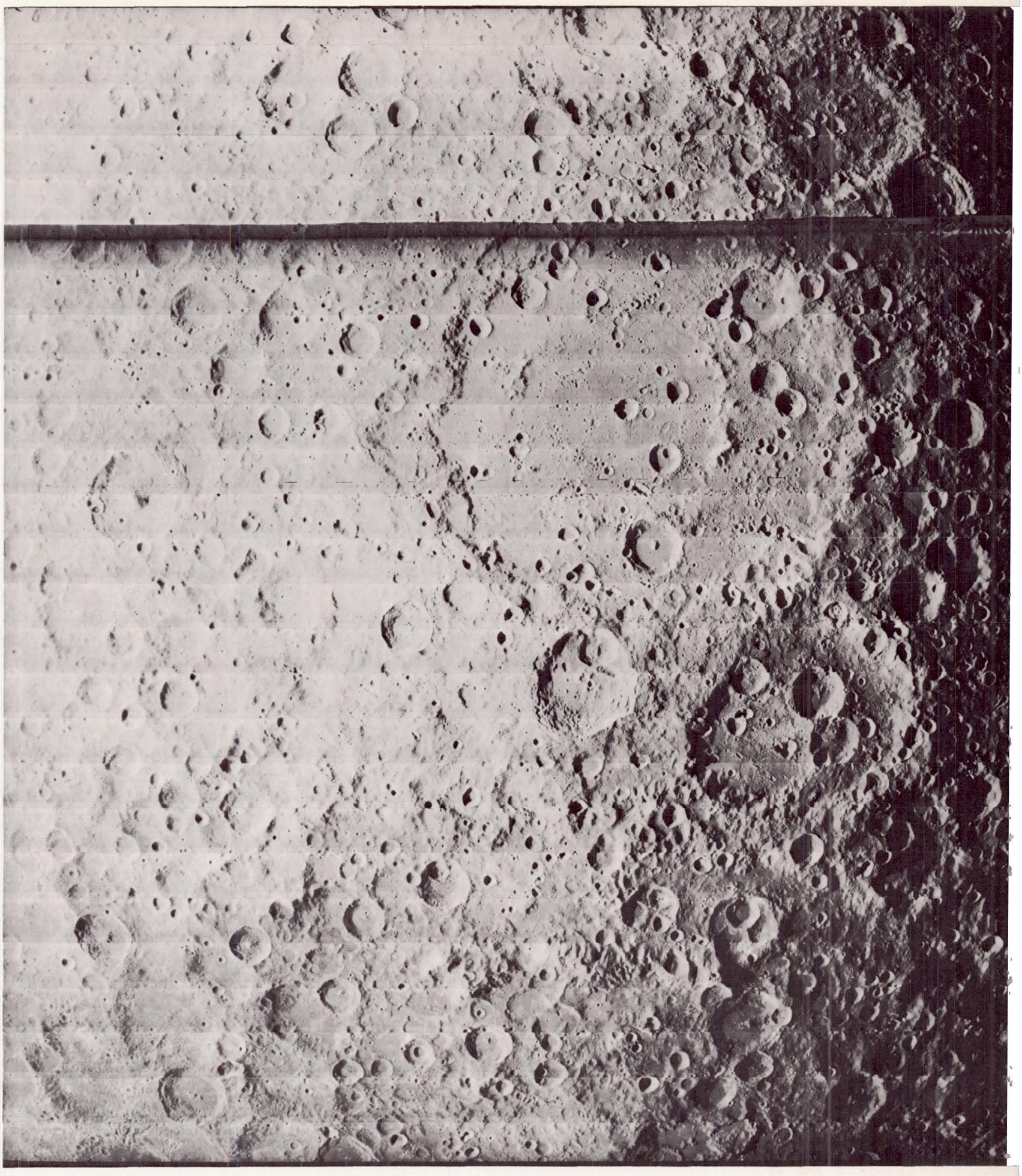
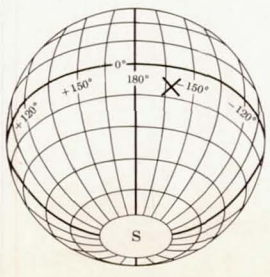



PLATE 650

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 42 KILOMETERS

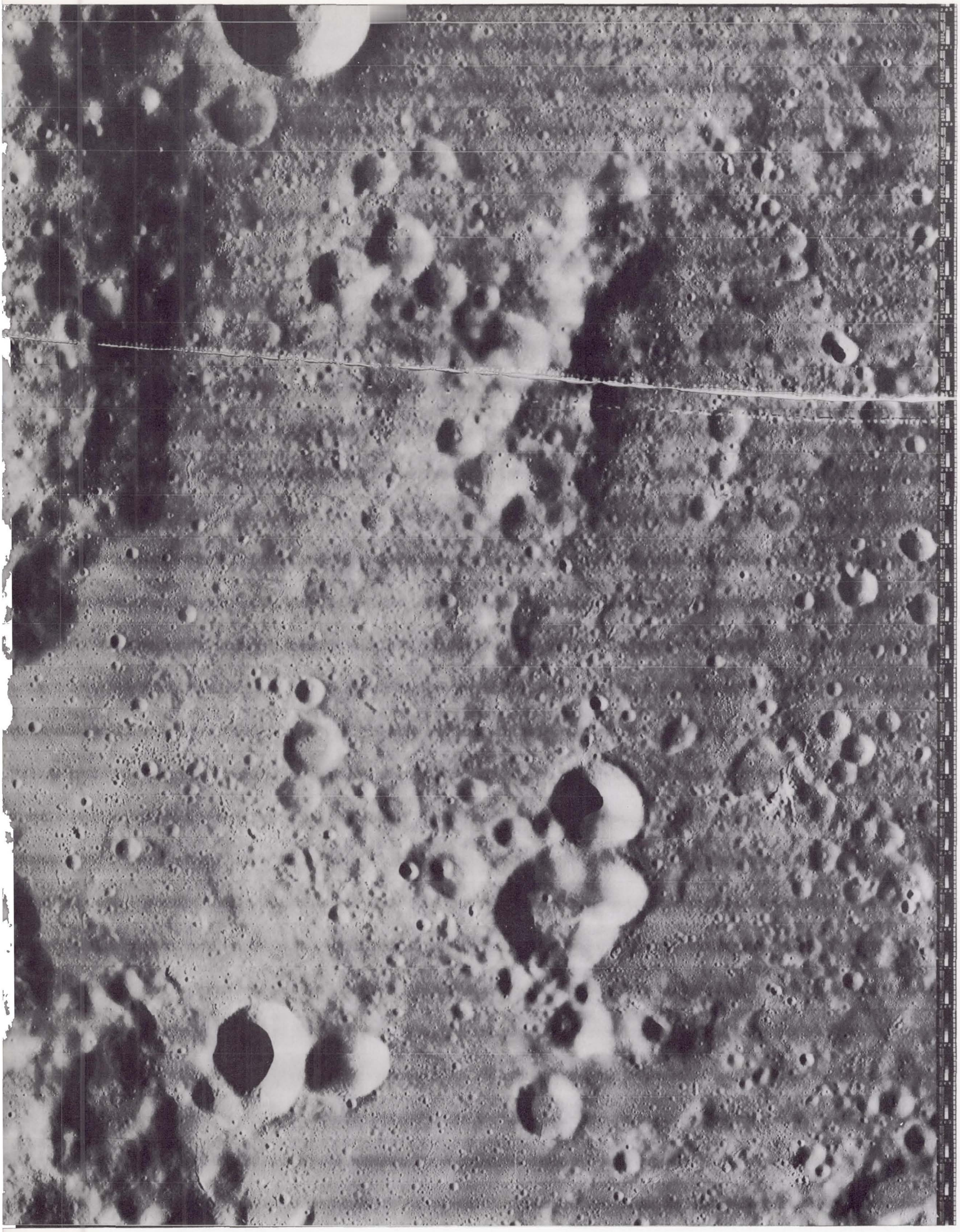
N

PHOTO NO. I-36-M

CENTER COORDINATES ..... LONG.—162
LAT. —0
NORTH DEVIATION (DEG.) .....17
SUN ANGLE .....
SPACECRAFT ALTITUDE (KM) .....134

PLATE 651

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO I-36-H1

NTER COORDINATES ..... LONG. —162.10
LAT. —08.65
RTH DEVIATION (DEG.) ..... .174.78
N ANGLE ..... .. 70.5
ACECRAFT ALTITUDE (KM) ..... .1343.77

N

1 CENTIMETER ≈ 6 KILOMETERS

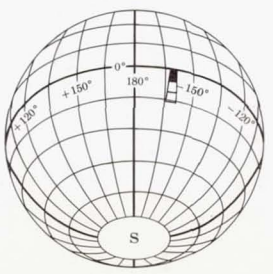
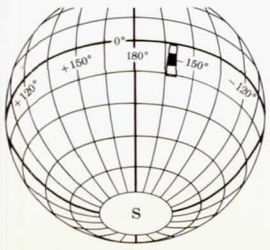



PLATE 652

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 6 KILOMETERS

N

PHOTO NO. I-36-H2

CENTER COORDINATES ..... LONG.—162.
LAT. —08.
NORTH DEVIATION (DEG.) ..... 174.
SUN ANGLE ..... 7
SPACECRAFT ALTITUDE (KM) ..... 1343.

PLATE 653

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •



PHOTO NO. I-36-H3

ENTER COORDINATES ..... LONG. —162.10
LAT. —08.65
ORTH DEVIATION (DEG.) ..... 174.78
UN ANGLE ..... 70.5
PACECRAFT ALTITUDE (KM) ..... 1343.77

N

1 CENTIMETER ≈ 6 KILOMETERS

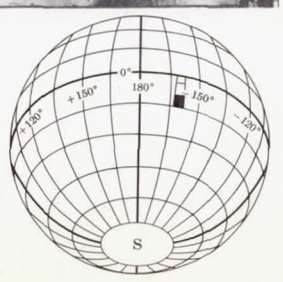
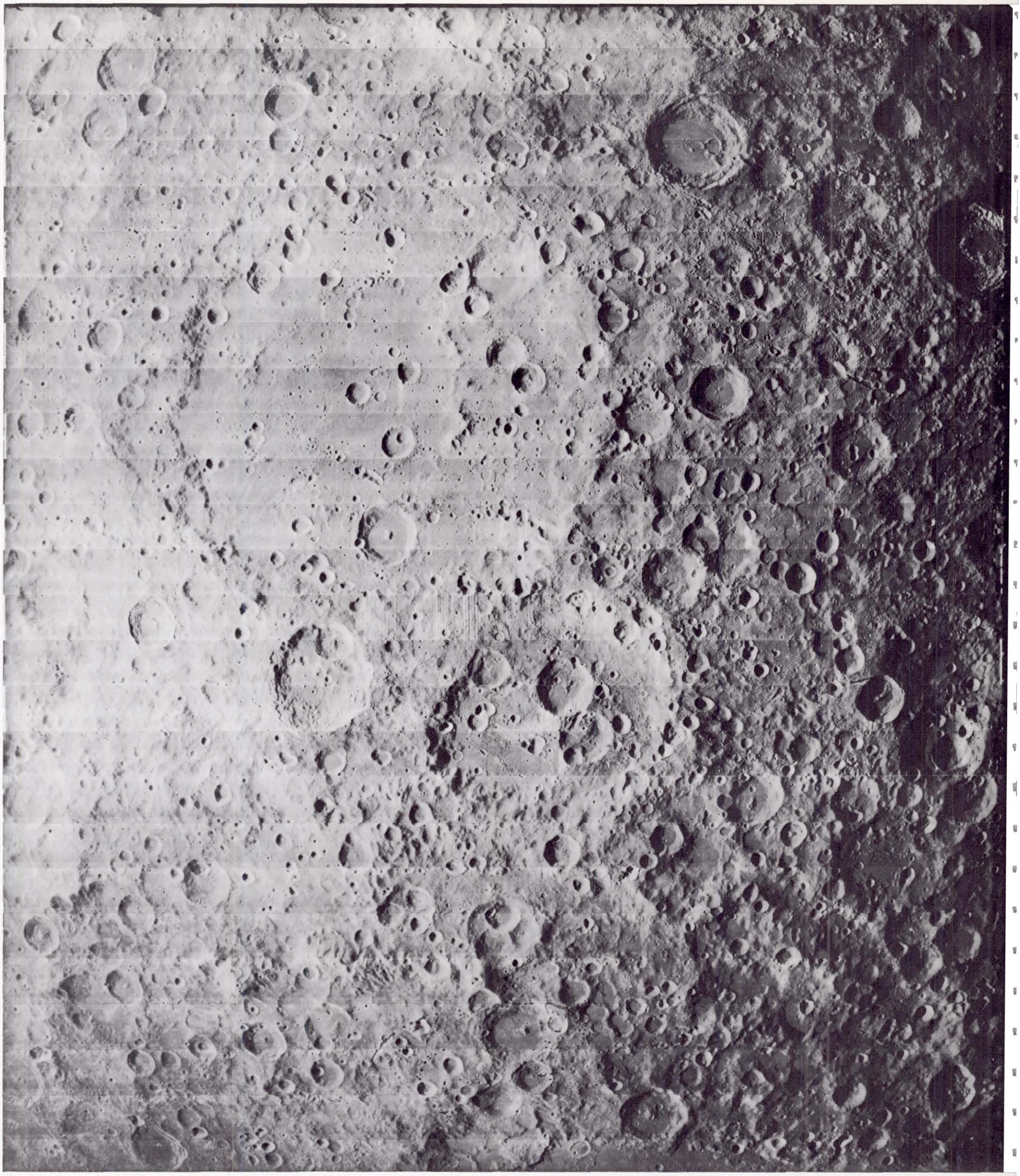
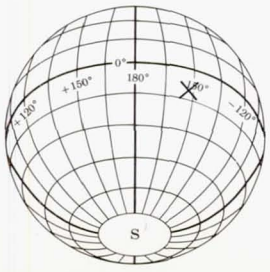



PLATE 654

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 41 KILOMETERS

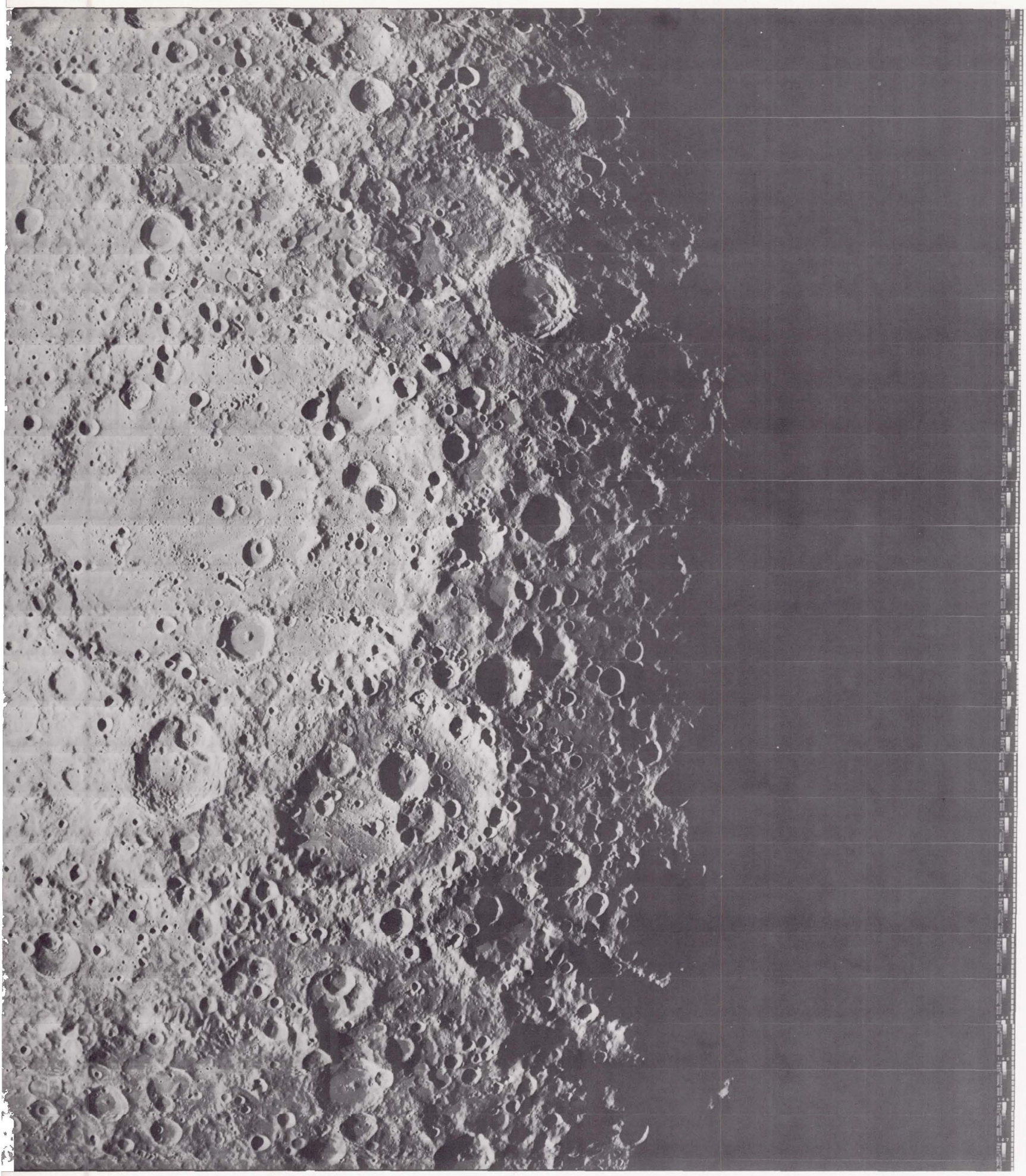
N

PHOTO NO. I-28-M

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −153.7 |
| | LAT. −10.2 |
| NORTH DEVIATION (DEG.) ..... | 174.9 |
| SUN ANGLE ..... | 67. |
| SPACECRAFT ALTITUDE (KM) ..... | 1304.3 |

PLATE 655

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. I-39-M

CENTER COORDINATES ..... LONG. —149.05
LAT. —06.49
NORTH DEVIATION (DEG.) ..... 176.24
SUN ANGLE ..... 83.3
SPACECRAFT ALTITUDE (KM) ..... 1451.45

N

1 CENTIMETER ≈ 47 KILOMETERS

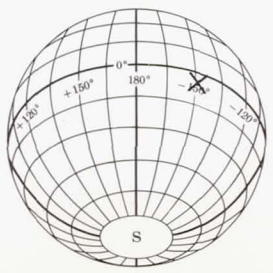
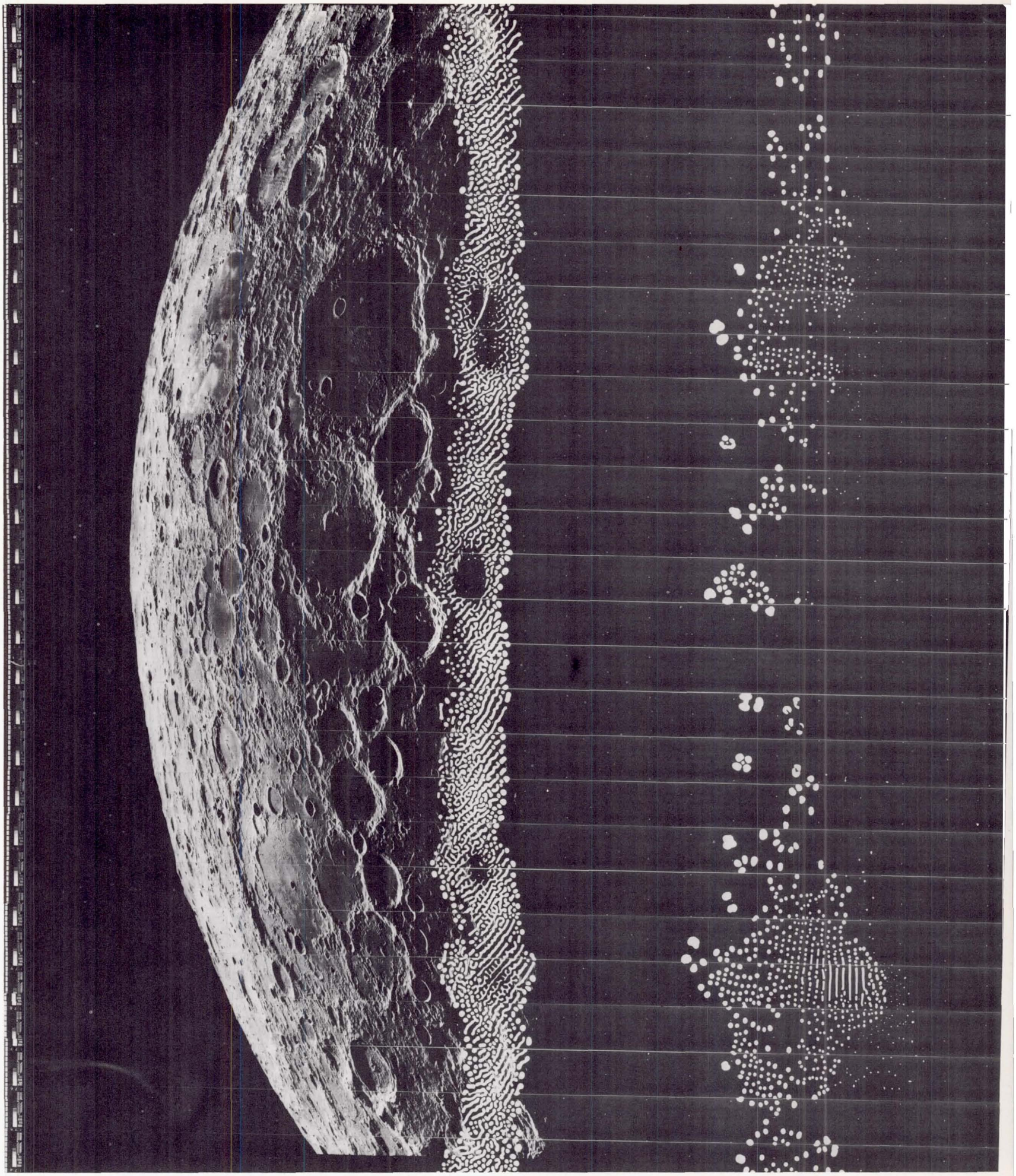
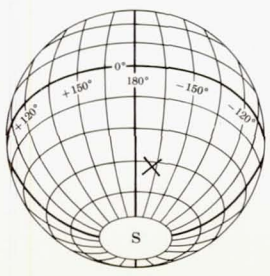



PLATE 656

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 42 KILOMETERS

N

PHOTO NO. V-65-M

| | | |
|---|---|---|
| CENTER COORDINATES | LONG. | −168.6 |
| | LAT. | −48.7 |
| NORTH DEVIATION (DEG.) | | 359.0 |
| SUN ANGLE | | 93. |
| SPACECRAFT ALTITUDE (KM) | | 1191.9 |

PLATE 657

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

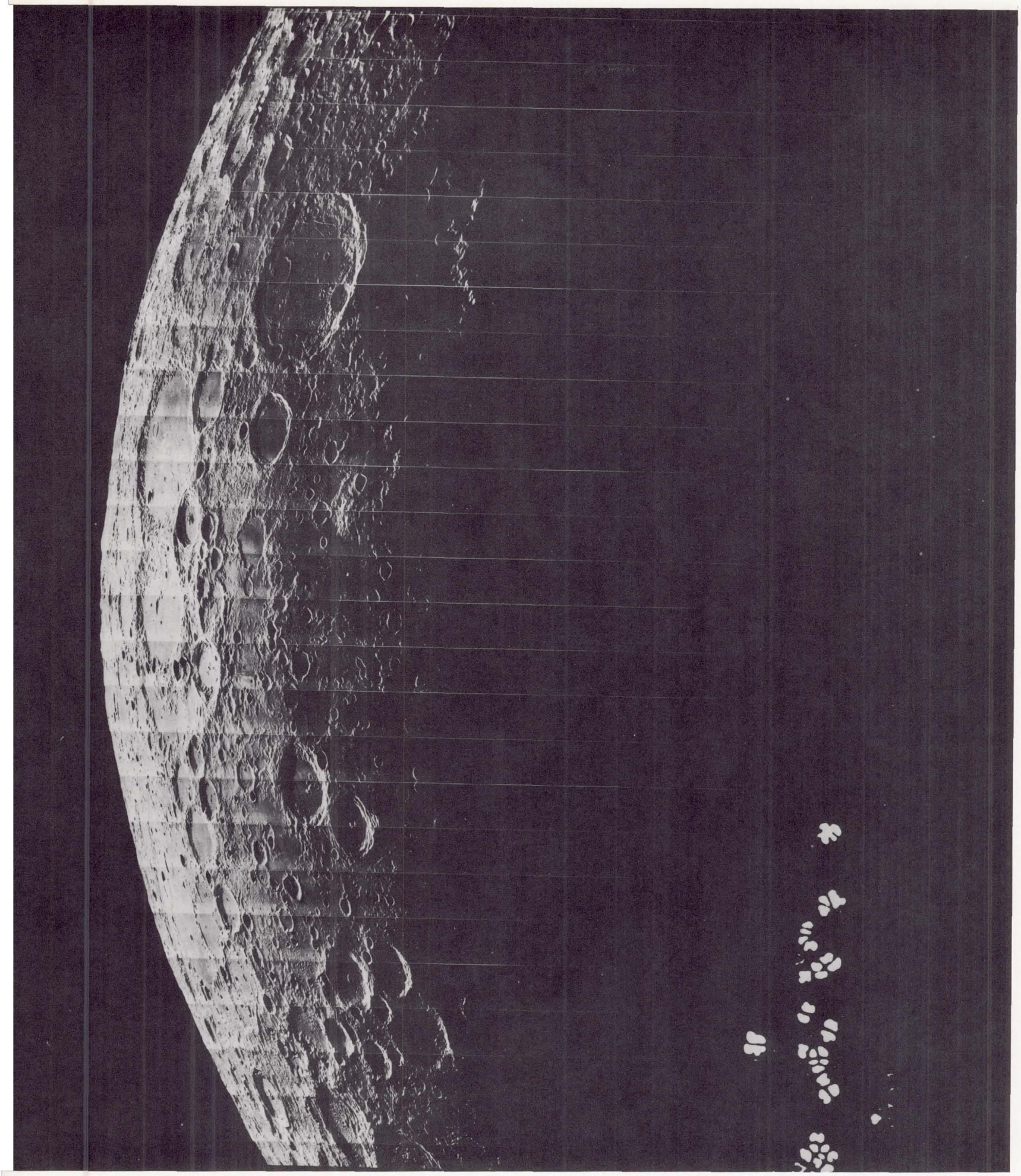


PHOTO NO. V-43-M

ENTER COORDINATES ..... LONG. —151.42
LAT. —47.43
ORTH DEVIATION (DEG.) ..... 1.84
UN ANGLE ..... 94.3
PACECRAFT ALTITUDE (KM) ..... 1190.54

N

1 CENTIMETER ≈ 42 KILOMETERS

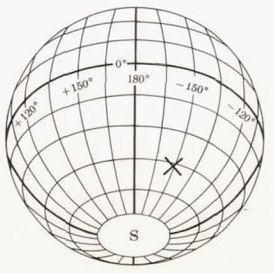
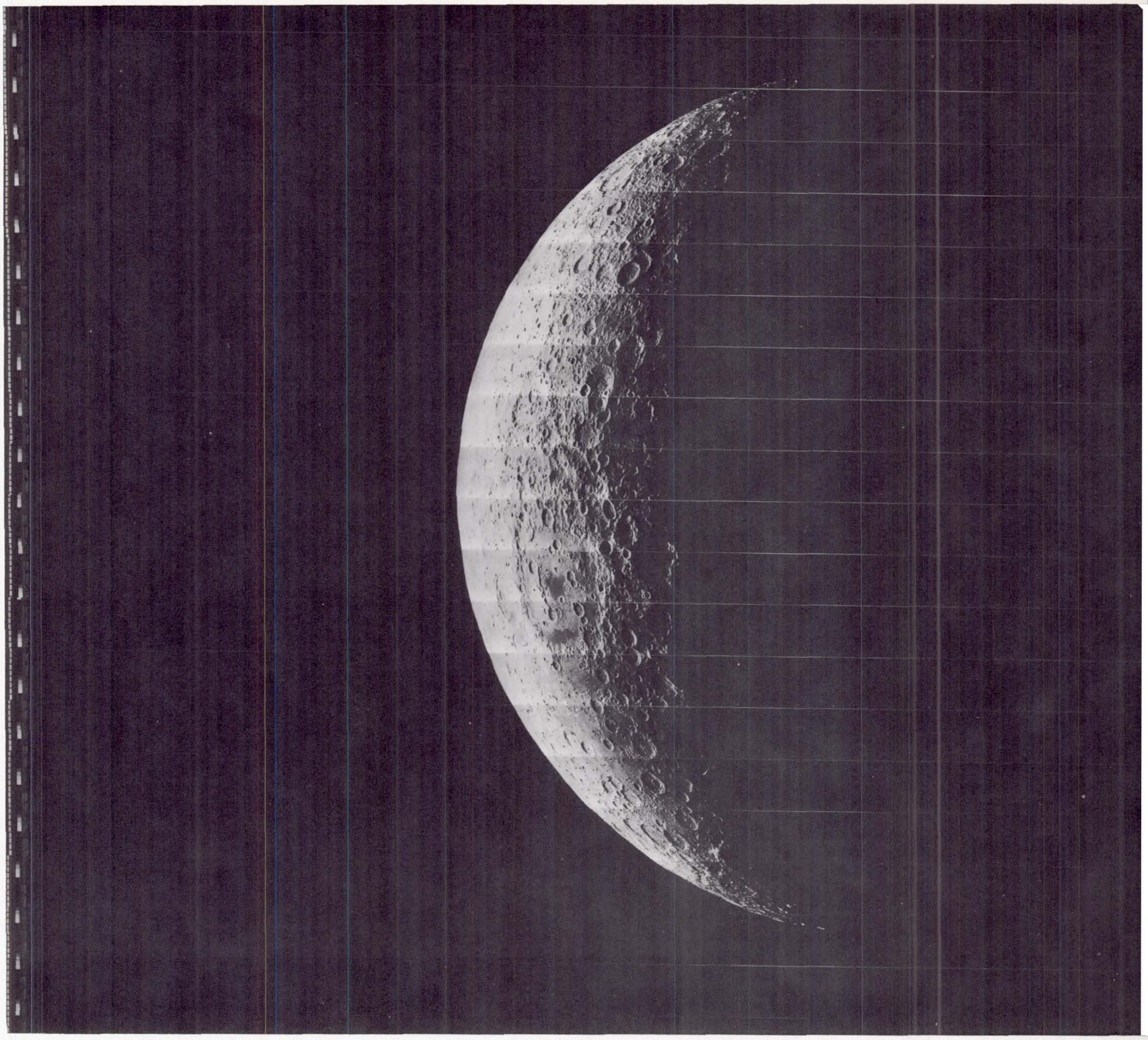
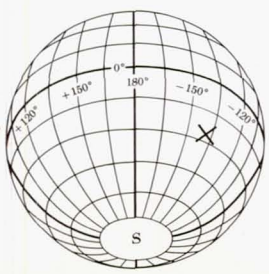



PLATE 658

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER≈170 KILOMETERS

N

PHOTO NO. V-30-M

CENTER COORDINATES ..... LONG.—139.
LAT. —25.
NORTH DEVIATION (DEG.) ..... 357.
SUN ANGLE ..... 83
SPACECRAFT ALTITUDE (KM) ..... 5068.

PLATE 659

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

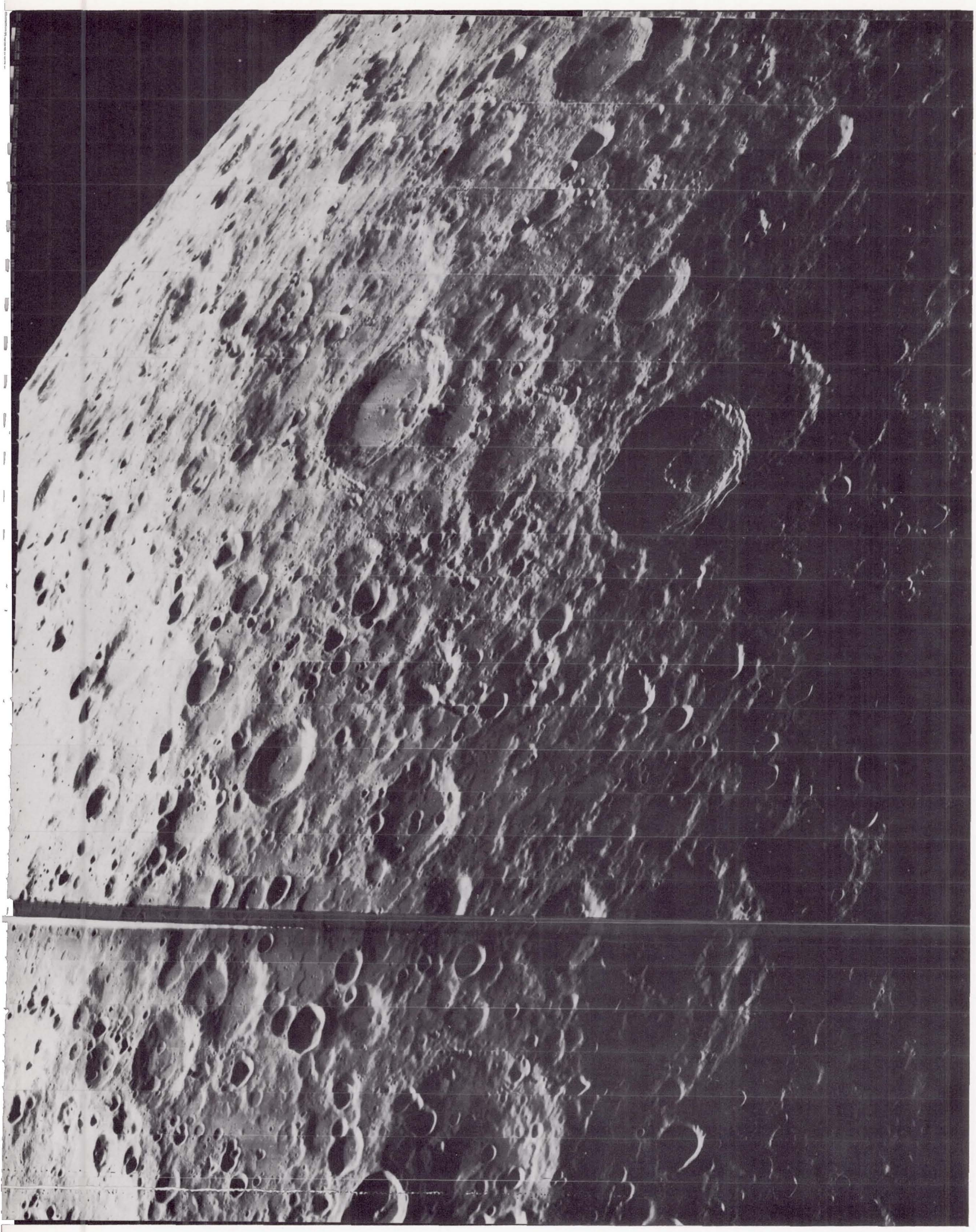


PHOTO NO. V-30-H3

ENTER COORDINATES ..... LONG. —139.30
LAT. —25.79
ORTH DEVIATION (DEG.) ..... 356.97
JN ANGLE ..... 83.3
PACECRAFT ALTITUDE (KM) ..... 5068.60

N

1 CENTIMETER ≈ 11 KILOMETERS

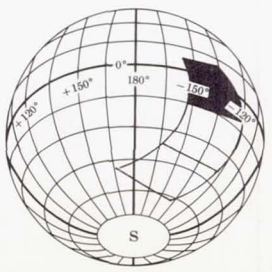
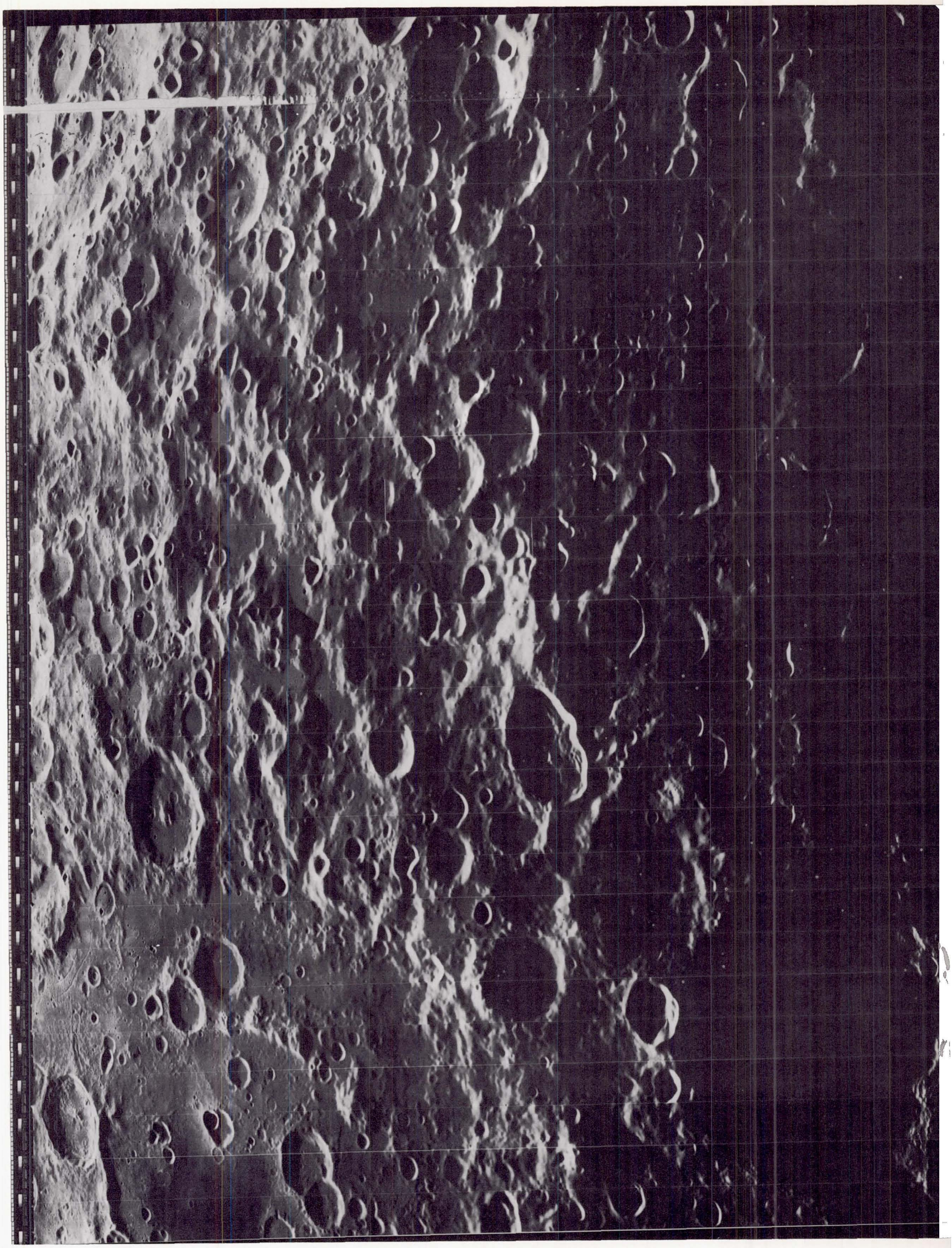
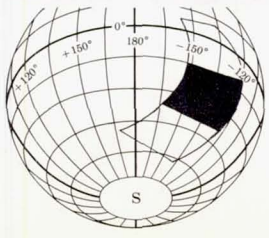



PLATE 660

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 22 KILOMETERS

N

PHOTO NO. V-30-H2

CENTER COORDINATES ..... LONG.—139.3
LAT. —25.3
NORTH DEVIATION (DEG.) ..... 356.9
SUN ANGLE ..... 83
SPACECRAFT ALTITUDE (KM) ..... 5068.6

PLATE 661

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

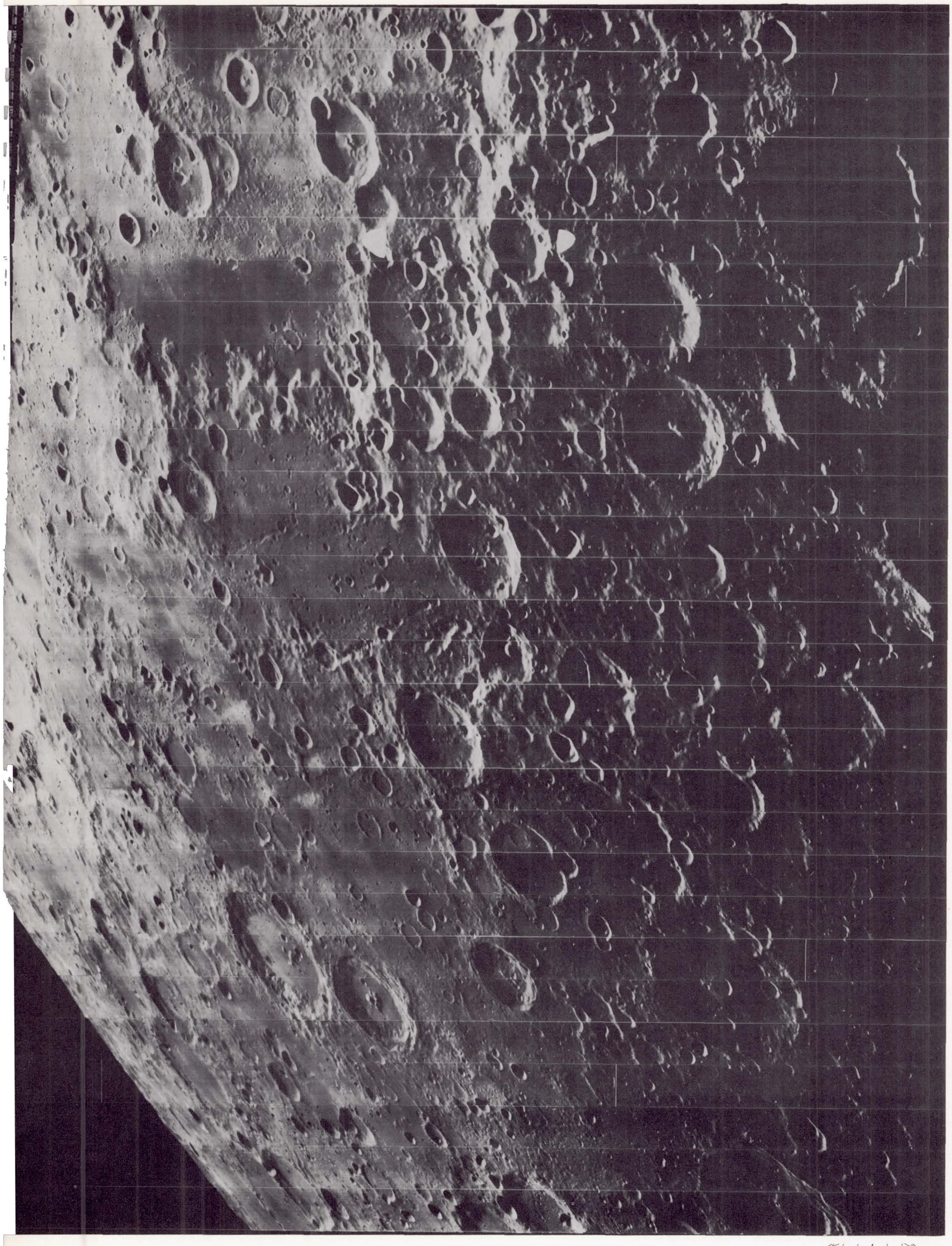


PHOTO NO. V-30-H1

ENTER COORDINATES ..... LONG. —139.30
LAT. —25.79
ORTH DEVIATION (DEG.) ..... 356.97
IN ANGLE ..... 83.3
PACECRAFT ALTITUDE (KM) ..... 5068.60

N

1 CENTIMETER ≈ 22 KILOMETERS

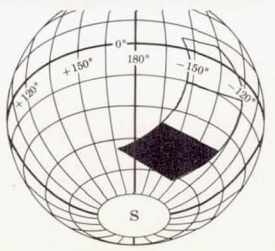
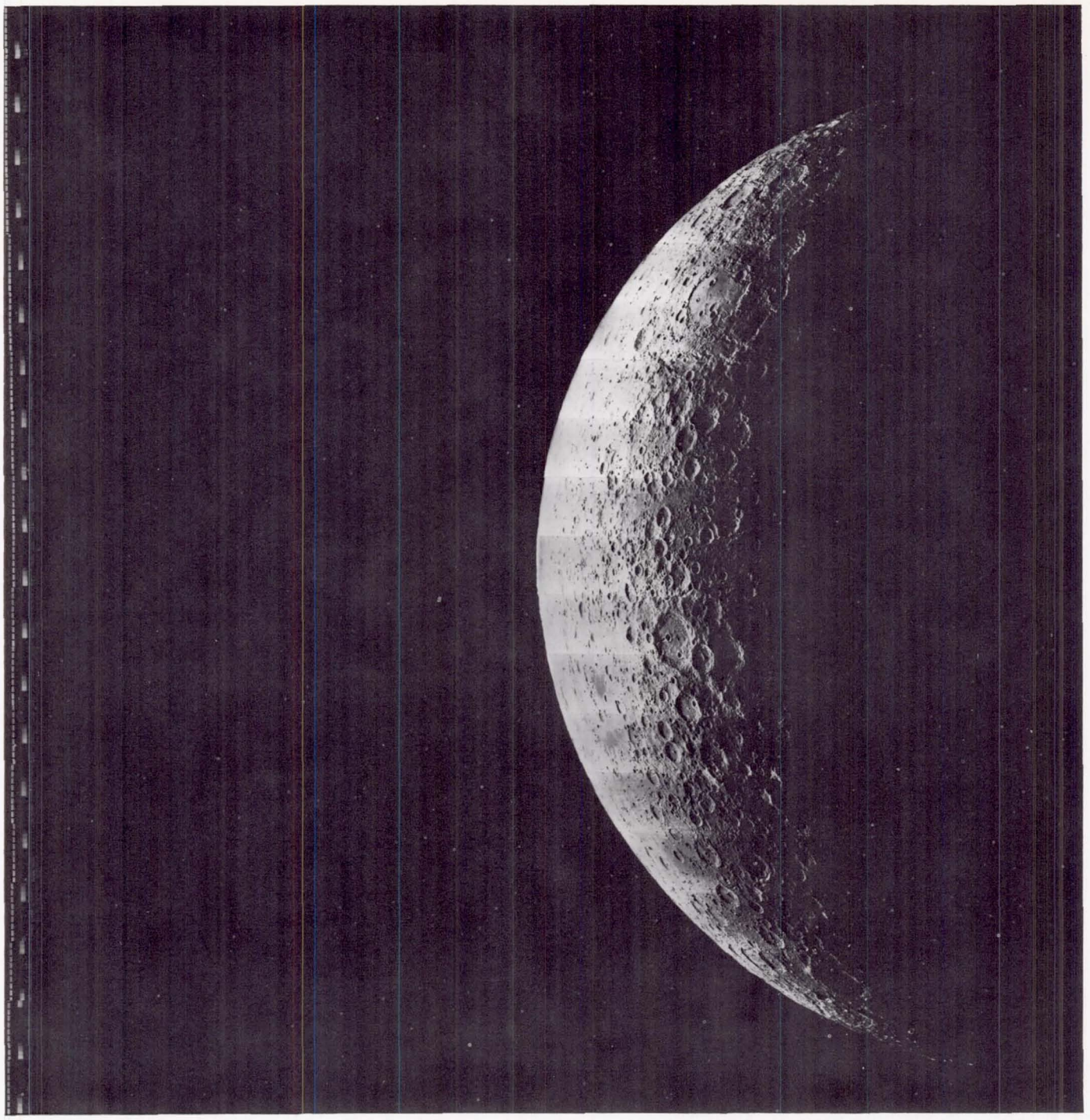
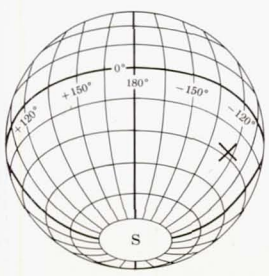



PLATE 662

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 170 KILOMETERS

N

PHOTO NO. V-26-M

CENTER COORDINATES ..... LONG. —124.
LAT. —27.
NORTH DEVIATION (DEG.) ..... 356.
SUN ANGLE ..... 8
SPACECRAFT ALTITUDE (KM) ..... 5069.

PLATE 663

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-26-H3

NTER COORDINATES ..... LONG. —125.06
LAT. —27.65
RTH DEVIATION (DEG.) ..... 356.34
N ANGLE ..... 84.8
ACECRAFT ALTITUDE (KM) ..... 5069.05

N

1 CENTIMETER ≈ 22 KILOMETERS

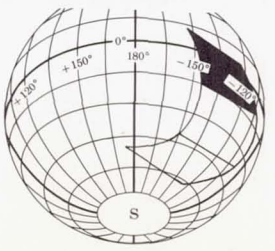
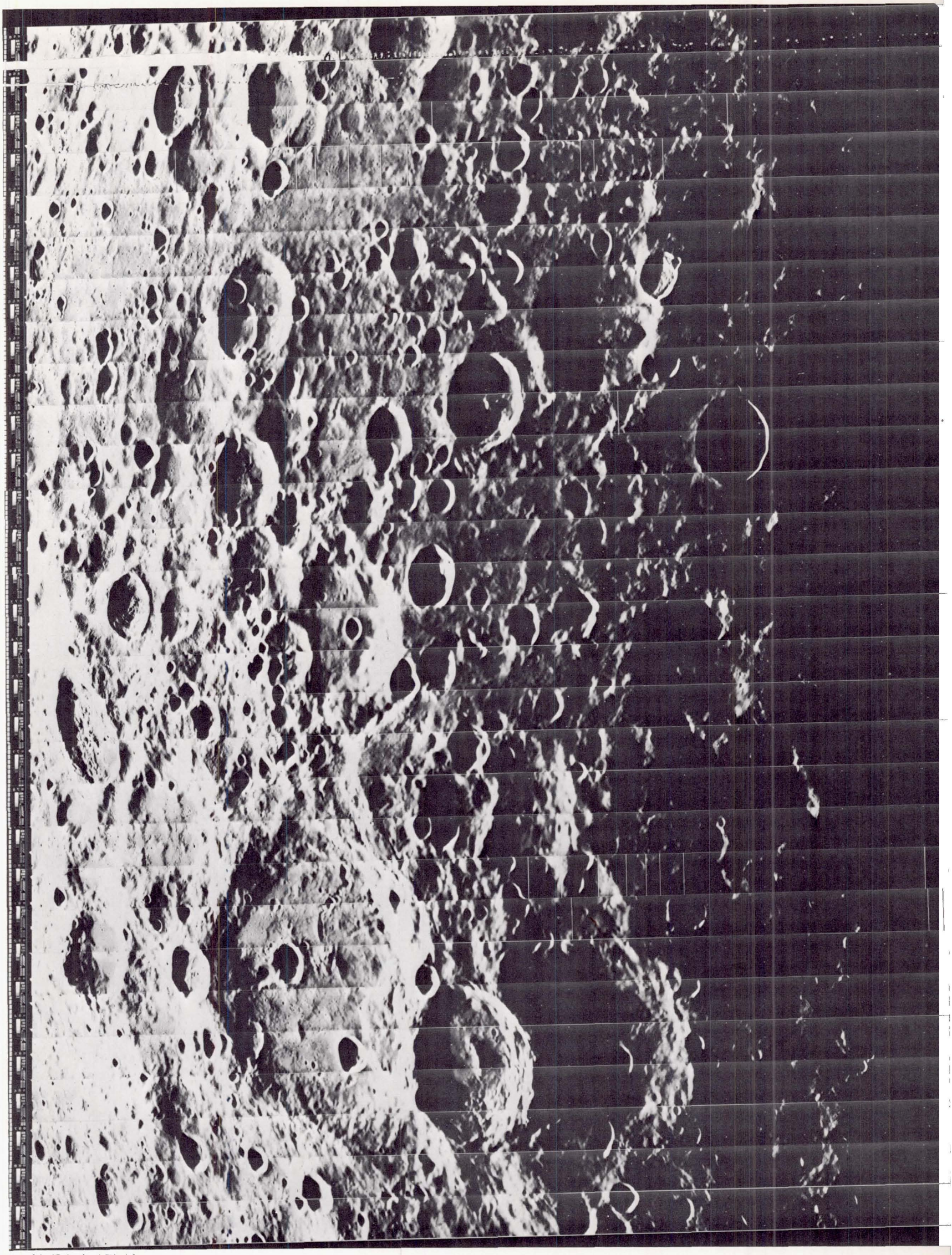
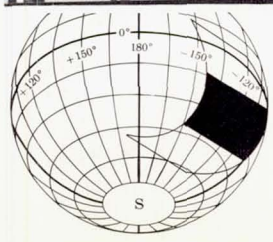



PLATE 664

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 22 KILOMETERS

N

PHOTO NO. V-26-H2

CENTER COORDINATES ..... LONG. —125.
LAT. —27.
NORTH DEVIATION (DEG.) ..... 356.
SUN ANGLE ..... 84
SPACECRAFT ALTITUDE (KM) ..... 5069.

PLATE 665

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-26-H1

ENTER COORDINATES ..... LONG. —125.06
LAT. —27.65
ORTH DEVIATION (DEG.) ..... 356.34
JN ANGLE ..... 84.8
PACECRAFT ALTITUDE (KM) ..... 5069.05

N

1 CENTIMETER ≈ 22 KILOMETERS

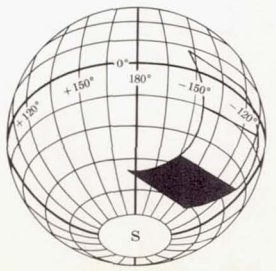
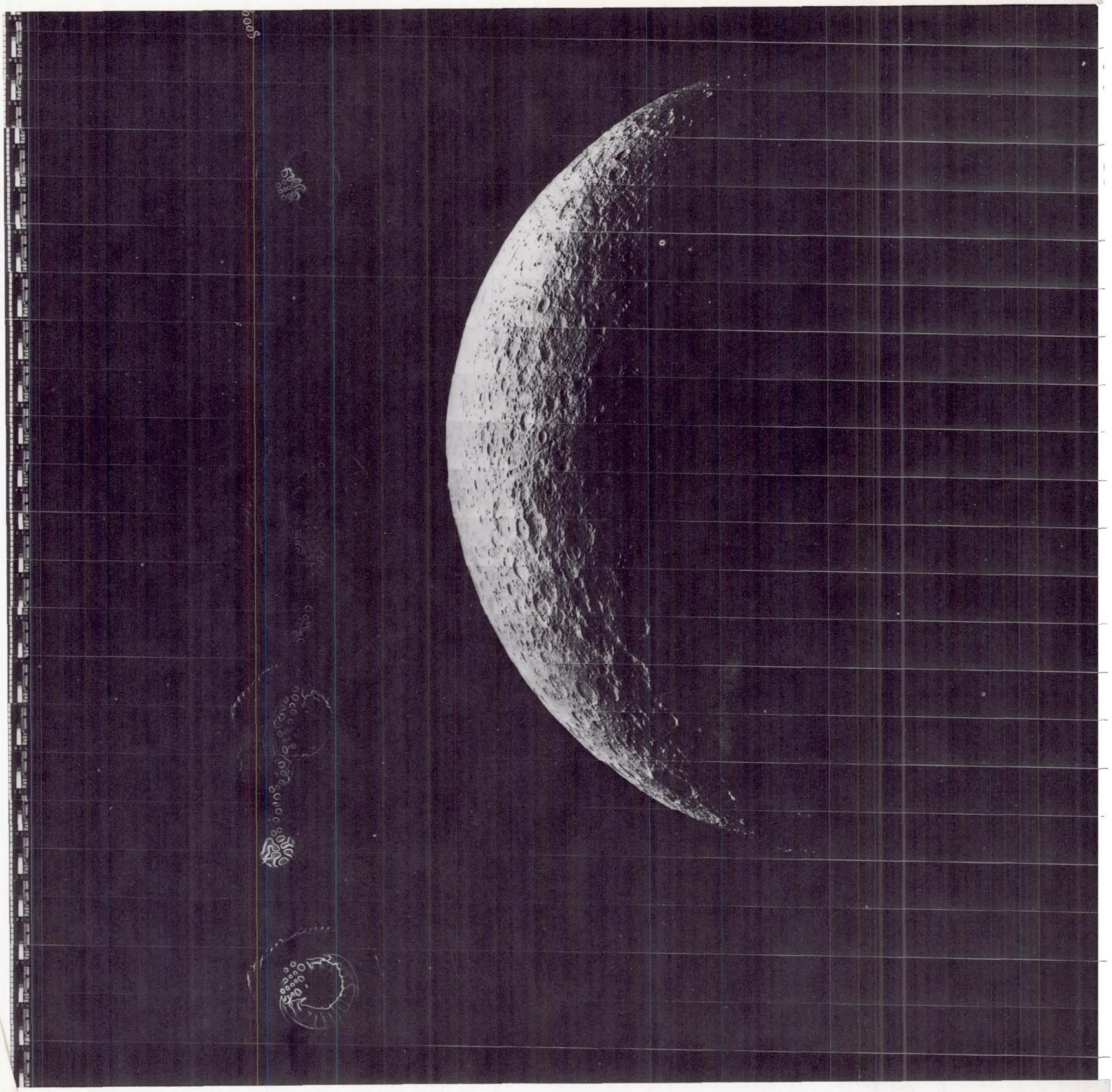
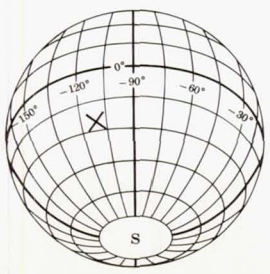



PLATE 666

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 13 • 14 • 15 •






1 CENTIMETER ≈ 171 KILOMETERS

N

PHOTO NO. V-22-M

CENTER COORDINATES ..... LONG. —112.4
LAT. —26.5
NORTH DEVIATION (DEG.) ..... 357.2
SUN ANGLE ..... 84
SPACECRAFT ALTITUDE (KM) ..... 5106.2

PLATE 667

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

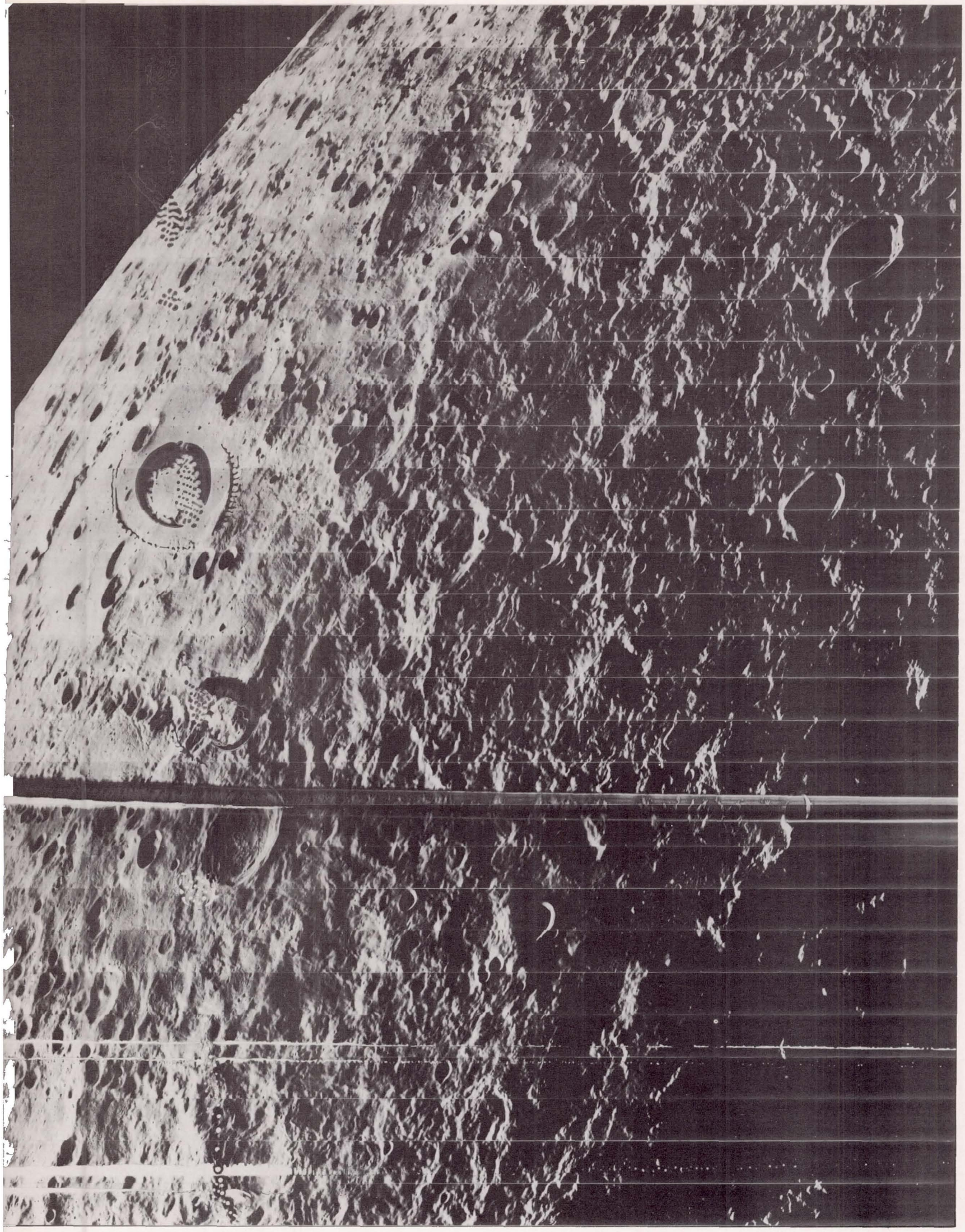


PHOTO NO. V-22-H3

| | | |
|---|---|---|
| ENTER COORDINATES ..... | LONG. | —112.55 |
| | LAT. | —26.96 |
| ORTH DEVIATION (DEG.) ..... | | 356.84 |
| UN ANGLE ..... | | 84.5 |
| PACECRAFT ALTITUDE (KM) ..... | | 5106.27 |

N

1 CENTIMETER ≈ 23 KILOMETERS

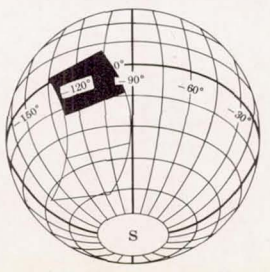
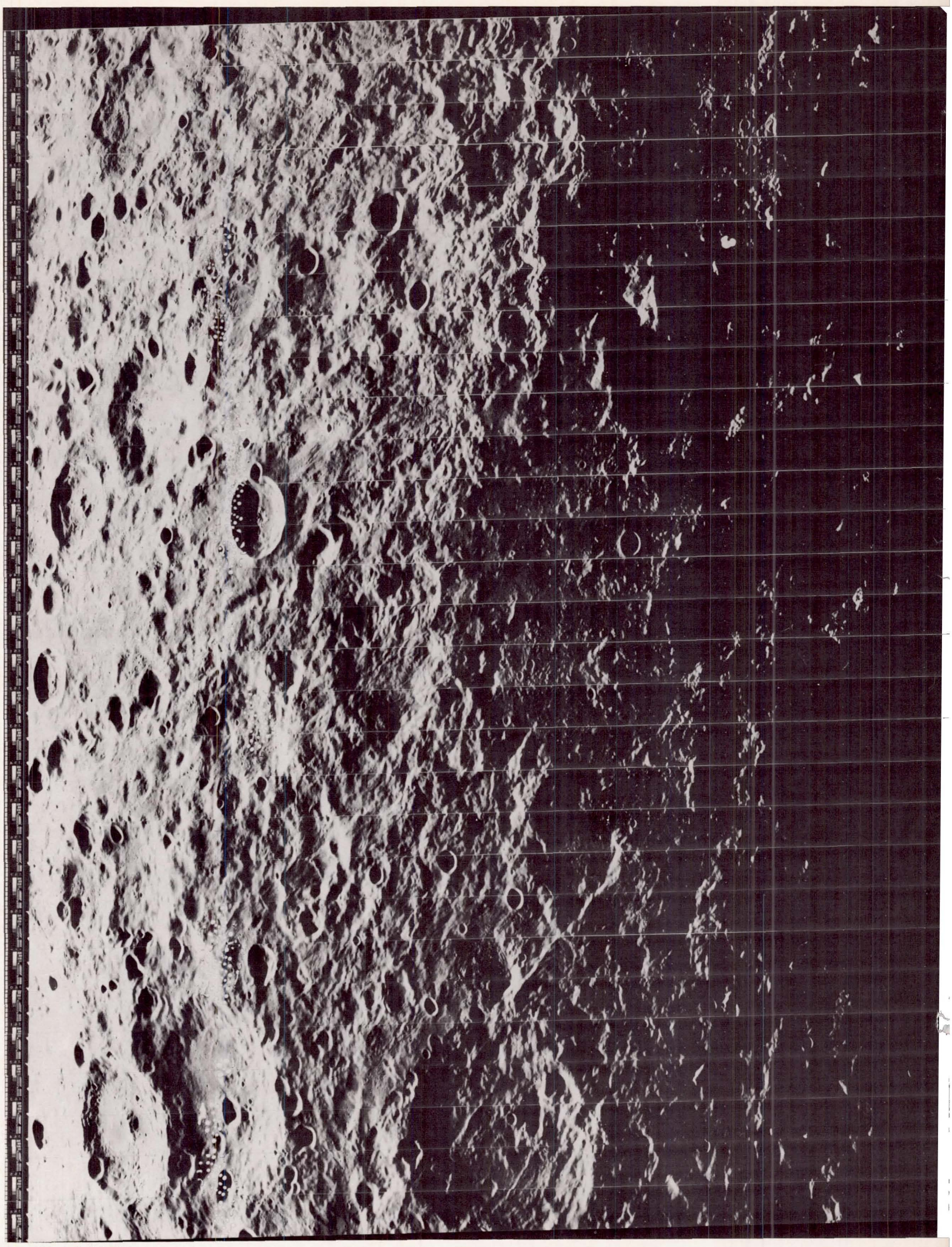
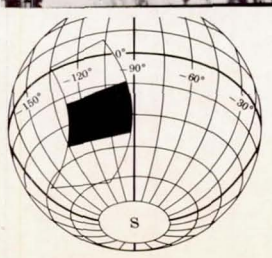



PLATE 668

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 23 KILOMETERS

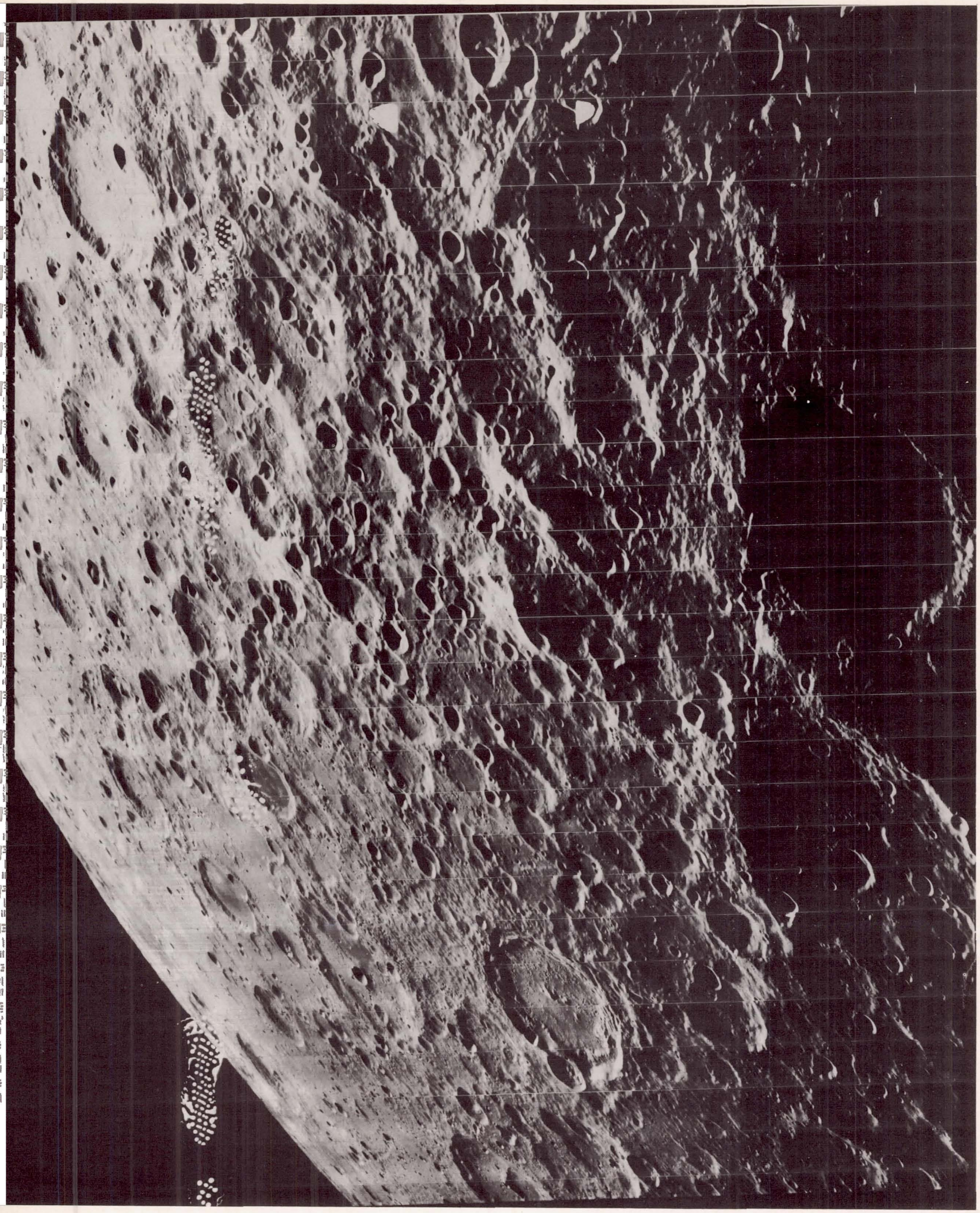
N

PHOTO NO. V-22-H2

CENTER COORDINATES ..... LONG. —112.
LAT. —26.
NORTH DEVIATION (DEG.) ..... 356.
SUN ANGLE ..... 80
SPACECRAFT ALTITUDE (KM) ..... 5106.

PLATE 669

M • L • K • J • H • G • F • E • D • C • B • A



1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •

PHOTO NO. V-22-H1

CENTER COORDINATES ..... LONG. —112.55
LAT. —26.96
NORTH DEVIATION (DEG.) ..... 356.84
SUN ANGLE ..... 84.5
SPACECRAFT ALTITUDE (KM) ..... 5106.27

N

1 CENTIMETER ≈ 23 KILOMETERS

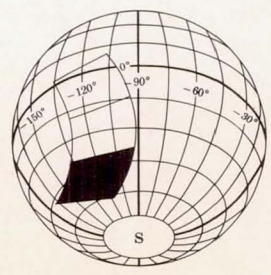
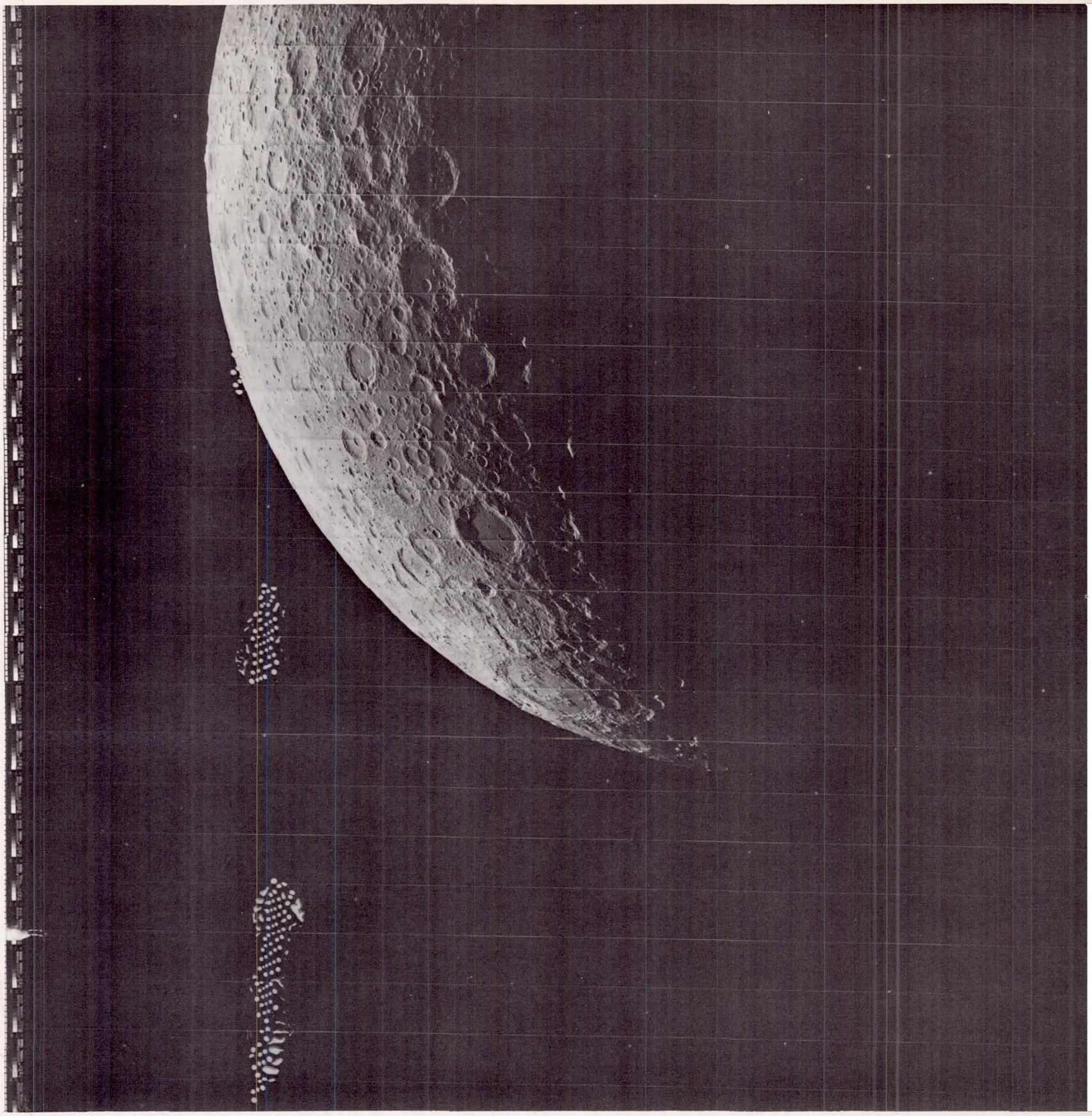
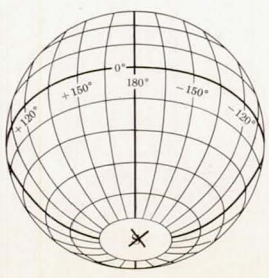



PLATE 670

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER≈ 124 KILOMETERS

N

PHOTO NO. V-21-M

| | |
|---|---|
| CENTER COORDINATES ..... | LONG. −168.61 |
| | LAT. −85.28 |
| NORTH DEVIATION (DEG.) ..... | 287.35 |
| SUN ANGLE ..... | 87.2 |
| SPACECRAFT ALTITUDE (KM) ..... | 3341.46 |

PLATE 671

M • L • K • J • H • G • F • E • D • C • B • A

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15

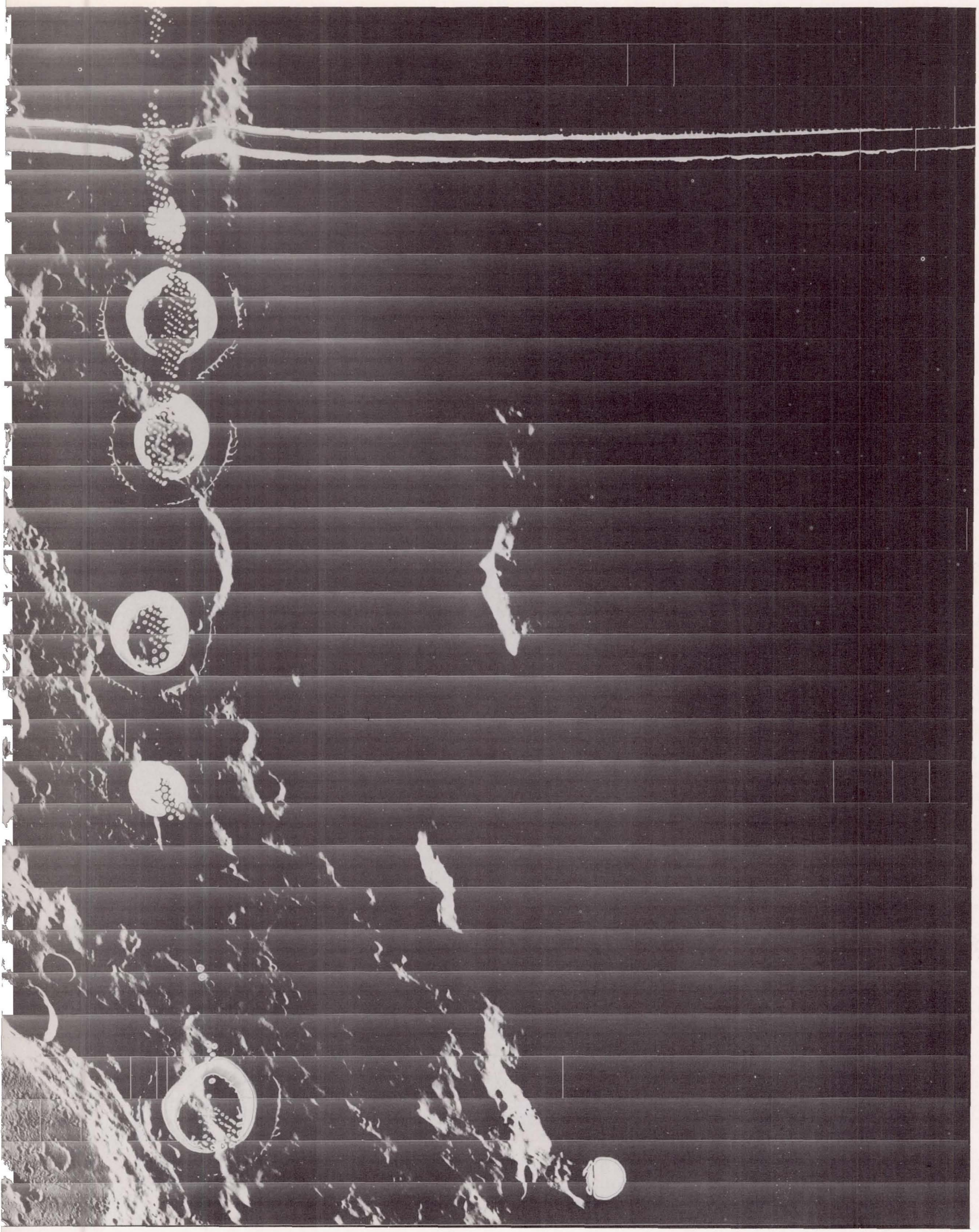


PHOTO NO. V-21-H3

ENTER COORDINATES ..... LONG. —175.39
LAT. —85.19
ORTH DEVIATION (DEG.) ..... 283.49
JN ANGLE ..... 86.9
PACECRAFT ALTITUDE (KM) ..... 3341.53

N

1 CENTIMETER ≈ 16 KILOMETERS

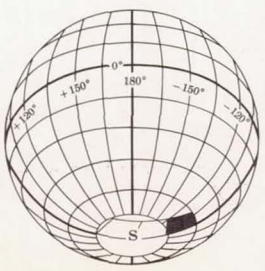
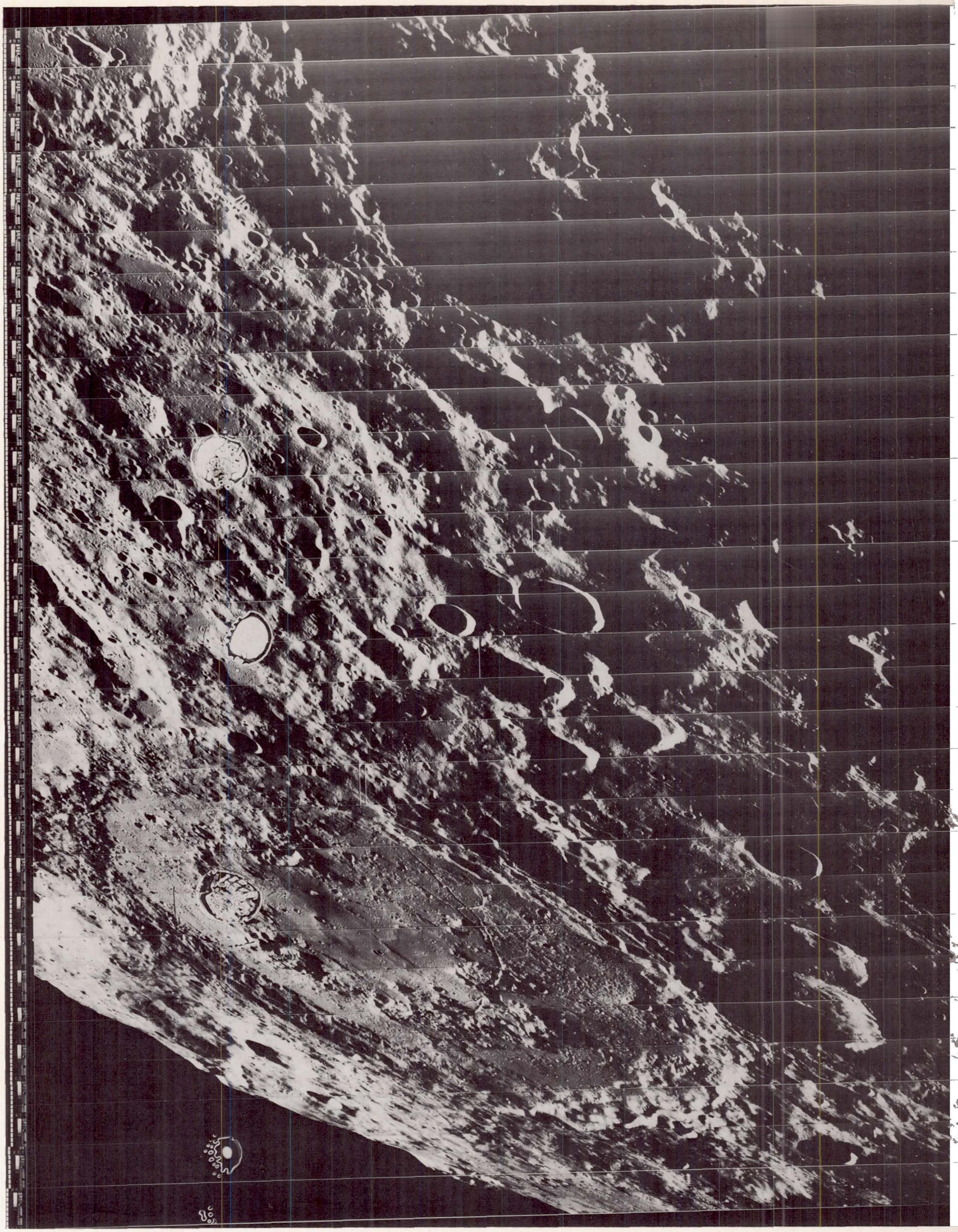
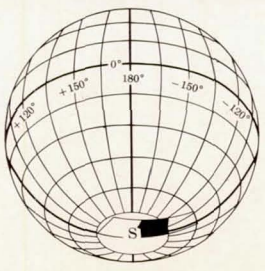



PLATE 672

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •






1 CENTIMETER ≈ 16 KILOMETERS

N

PHOTO NO. V-21-H2

CENTER COORDINATES ..... LONG. —175.3
LAT. —85.1
NORTH DEVIATION (DEG.) ..... 283.4
SUN ANGLE ..... 86.
SPACECRAFT ALTITUDE (KM) ..... 3341.5

PLATE 673

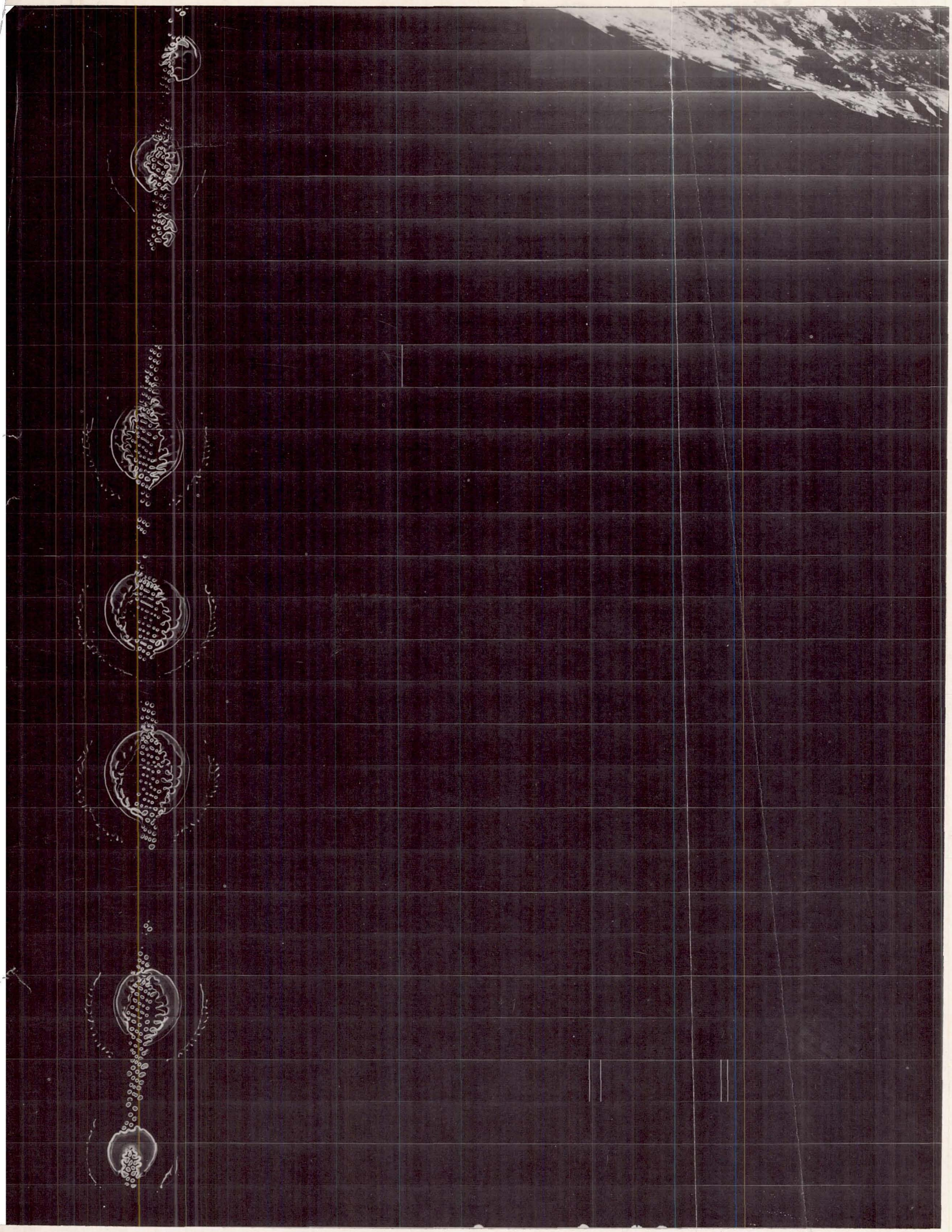


PHOTO NO. V-21-H1

CENTER COORDINATES ..... LONG. —175.39
LAT. —85.19
NORTH DEVIATION (DEG.) ..... 283.49
SUN ANGLE ..... 86.9
SPACECRAFT ALTITUDE (KM) ..... 3341.53

N

1 CENTIMETER ≈ 16 KILOMETERS

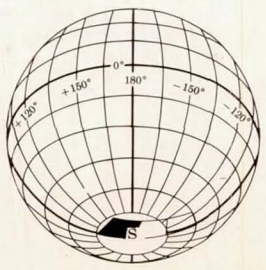
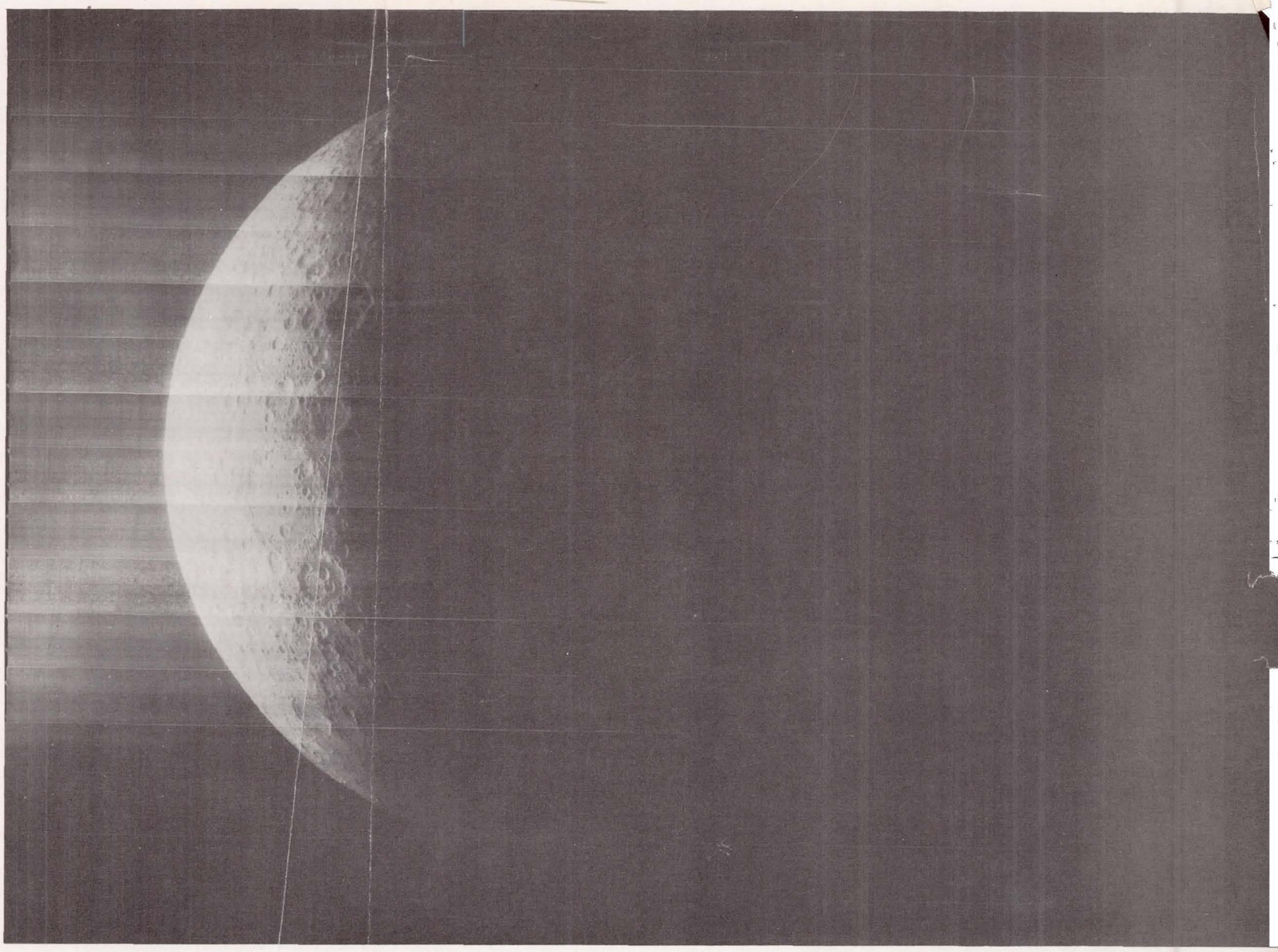
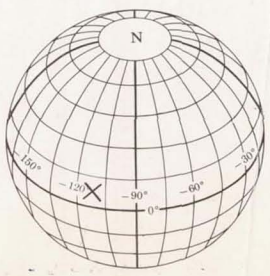



PLATE 674

A • B • C • D • E • F • G • H • J • K • L • M

1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 •





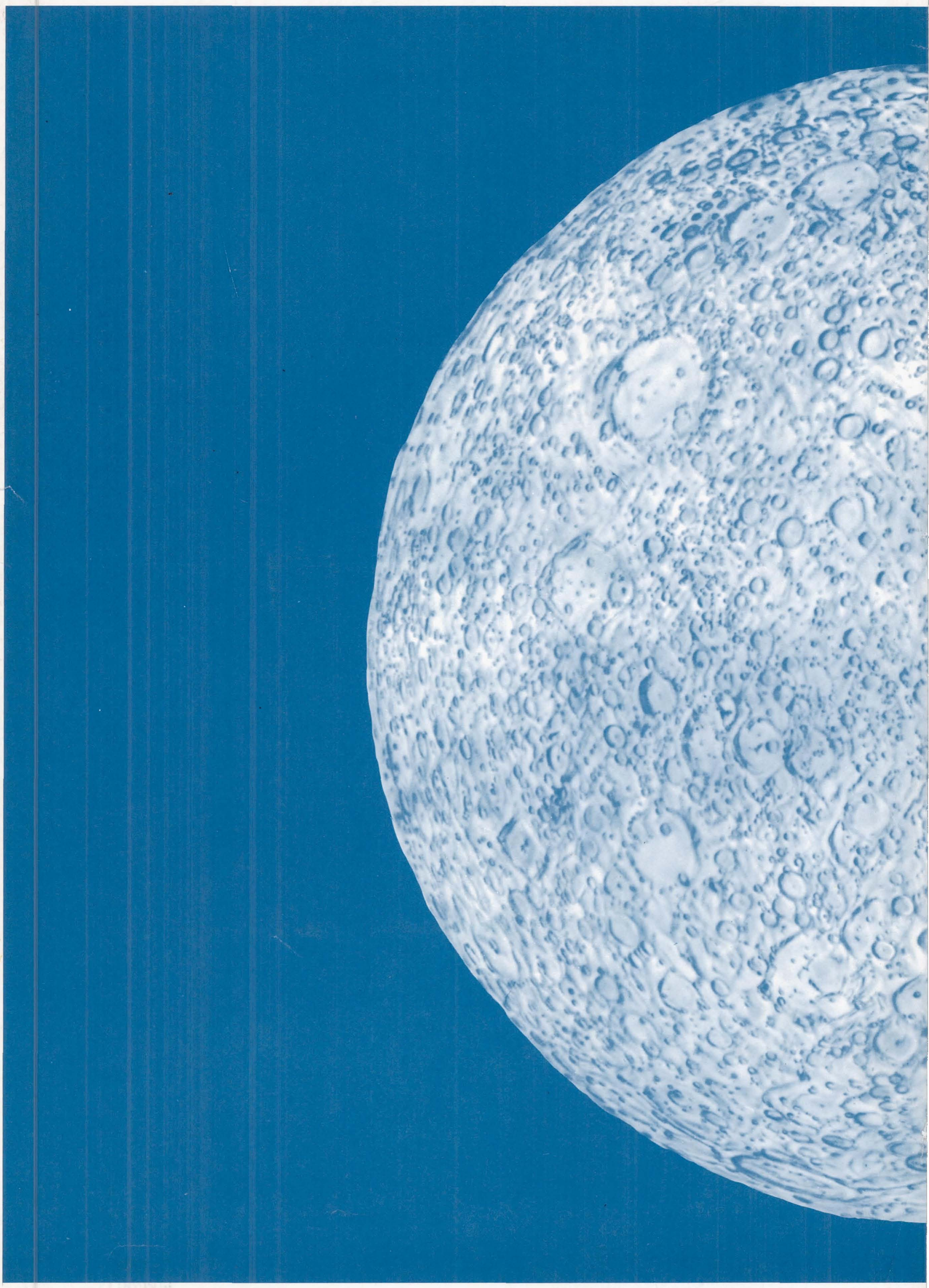

1 CENTIMETER ≈ 195 KILOMETERS

N

PHOTO NO. IV-51-M

| | |
|---|---|
| CENTER COORDINATES ..... LONG. | −112.11 |
| LAT. | 8.48 |
| NORTH DEVIATION (DEG.) ..... | 179.51 |
| SUN ANGLE ..... | 123.7 |
| SPACECRAFT ALTITUDE (KM) ..... | 6113.98 |

PLATE 675



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